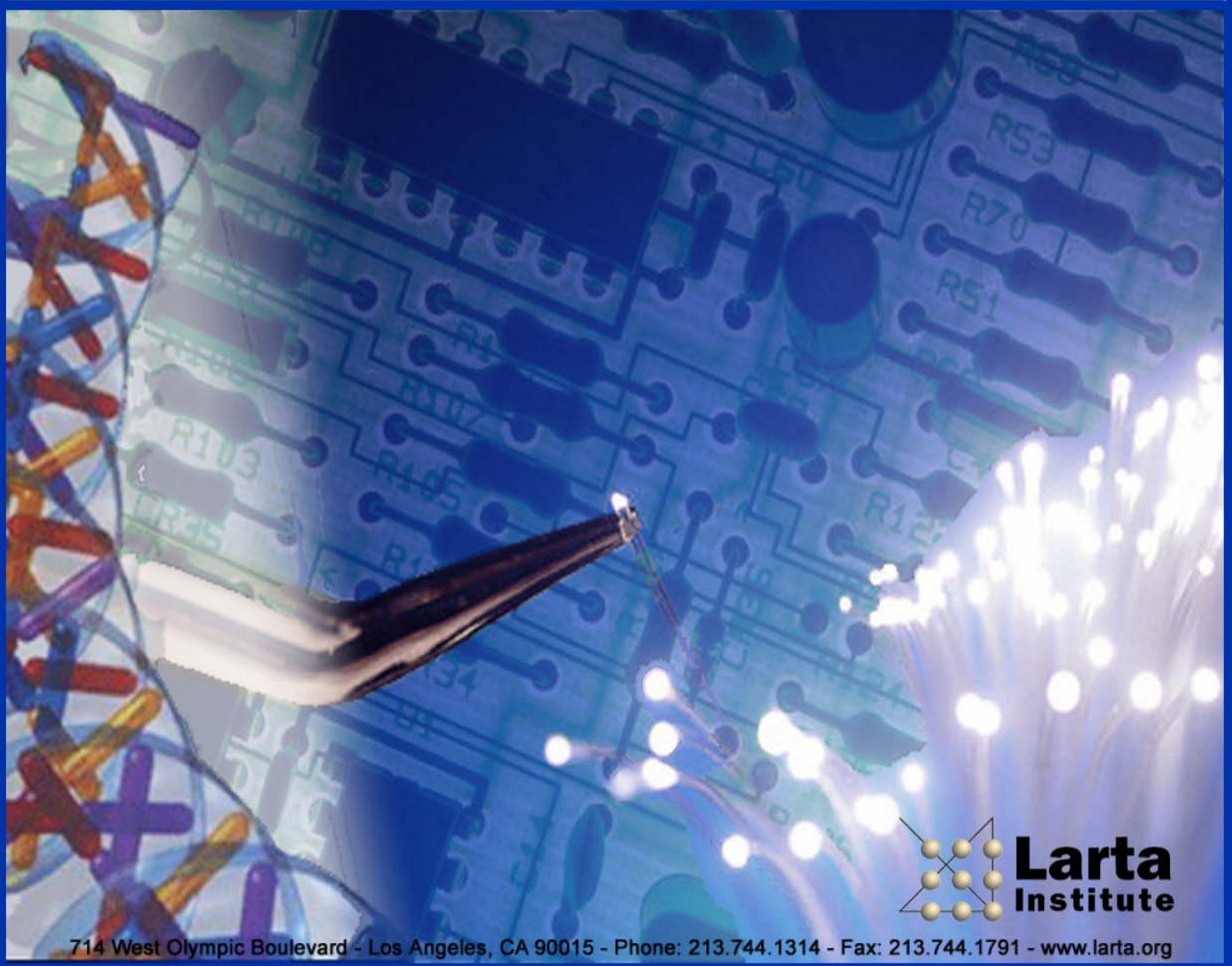


Federal Technology Funding Guide 2006



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**Federal Technology Funding
Guide 2006:
A Guide to Navigating
Government Programs Supporting
Innovation R&D & Beyond**

By the staff of



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About Larta Institute

Larta Institute manages client-sponsored commercialization programs that help companies innovate and grow. We bring together people, technology, and capital to drive the innovation process.

Since 1993, companies helped by Larta Institute have raised over \$1.5 billion in capital. Our world-class Venture Forum conference and seminars provide insights to thousands of businesspeople each year, and our monthly electronic journal on business innovation is read by over 41,000 people. Larta is proud of the professionals that stay close to high-growth companies by securing our services or attending and sponsoring our programs.

The Institute was originally formed in 1993 through legislation enacted by the State of California. Since that time, Larta Institute has expanded dramatically to serve companies worldwide in a broad variety of technology sectors.

What We Do:

Larta Institute's services enhance the commercial potential of innovative ventures, augment their network, and connect them to industry partners and capital providers. Clients include Federal agencies, international governments/regional economies, and private corporations. Larta's programs involve a network of experienced business practitioners, investment professionals, subject matter experts, and industry leaders who provide our client companies with the resources and connections to maximize their success in the marketplace.

Services:

Technology Commercialization

Federal agencies hire us to stimulate economic growth by working with their most promising companies, including U.S. SBIR funded companies. Larta also manages large-scale commercialization assistance programs for other Federally funded companies seeking to develop compelling market strategies and demonstrate commercial traction and success. Among our many programs is a nationwide commercialization assistance program for the National Institutes of Health. We have served as the State of California's official technology analysis and commercialization firm since 1993 and provide top-notch, customer-focused services that rated 9 out of 10 points according to an independent survey of our customers by Dun and Bradstreet. Larta is a federal GSA MOBIS schedule contractor.

Global Bridge

Larta Institute's Global Bridge Program assists global companies to access the U.S. marketplace. We equip entrepreneurs with practical, high-value mentorship/education and use our vast network to connect companies to the right resources. Our client-sponsored Global Bridge programs include work with innovative companies from Israel, Canada, Japan, Australia, Sweden, Finland, and many others. Governments and regional economies partner with Larta to drive the success of their tech-based enterprises and market development initiatives.

Technology Transfer

Larta Institute manages the Network T2 consortium of 19 leading universities and research institutions with a driving purpose: to accelerate the innovation process. The Network T2 consortium helps universities and research institutions connect to the commercial world. The Venture Forum is proud to feature university research-based technologies to investors and industry.

Innovation Pipeline Sourcing

Larta's Commercialization, Global Bridge, and Technology Transfer programs provide access to global innovation pipelines for our corporate clients. Larta helps investors and large companies access the latest technologies through our broad array of commercialization services, -conferences, and custom sourcing programs. Larta provides corporate clients with access to cutting-edge technologies to remain competitive and enhance their innovation pipeline.

Federal Technology Funding Guide

2006

About the Federal Technology Funding Guide

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Acknowledgments

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Thanks to our sponsors for their support of Larta's activities. Our appreciation, finally, to all individuals who have dedicated time to Larta over the years to help build Larta into a significant player in the technology economy today. Without your help, today's successes would not have been possible.

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TABLE OF CONTENTS

INTRODUCTION	9
ORGANIZATION OF THE GUIDE	11
SIX FIRST STEPS TO APPLYING FOR FEDERAL TECHNOLOGY FUNDING PROGRAMS	11
GENERAL GUIDELINES TO WRITING AND SUBMITTING A PROPOSAL.....	13
<i>Know Your Reviewers</i>	13
<i>Proposal Format</i>	13
<i>Budget</i>	14
<i>Submission Guidelines</i>	14
<i>DUNS Number</i>	14
AGENCY NEWSLETTERS.....	16
SECTION I.....	19
OVERVIEW OF FEDERAL PROGRAMS.....	19
STRUCTURE OF FEDERAL R&D PROGRAMS	20
HOW THE PROCESS WORKS	21
SPECIAL SECTION: FY 2007 FEDERAL RESEARCH BUDGET OVERVIEW	22
<i>Science and Technology (S&T) Budget</i>	22
<i>Research Priorities</i>	23
SECTION II	27
SBIR AND STTR PROGRAMS.....	27
SBIR AND STTR PROGRAMS.....	28
<i>Small Business Innovation Research Program</i>	28
SBIR PROGRAM DATA	29
<i>Small Business Technology Transfer Program</i>	33
STTR PROGRAM DATA.....	34
RECENT SBIR/STTR AWARD DATA	37
<i>Department of Agriculture</i>	37
<i>Department of Commerce</i>	40
<i>Department of Defense</i>	45
<i>Department of Energy</i>	51
<i>Department of Health & Human Services</i>	54
<i>Department of Homeland Security</i>	56
<i>Department of Transportation</i>	57
<i>National Aeronautics and Space Administration</i>	63
<i>Research Topics</i>	63
MORE INFORMATION ON SBIR OR STTR PROGRAMS.....	70
SBIR/STTR CONTACT INFORMATION	70
SECTION III: REGULAR PROGRAMS	75

Federal Technology Funding Guide

2006

DEPARTMENT OF AGRICULTURE.....	79
<i>Agricultural Research Program – Special Grants</i>	80
<i>Bioenergy Program</i>	81
<i>Biotechnology Risk Assessment Research Grants Program (BRARGP)</i>	83
<i>Forestry Research Program</i>	85
<i>National Research Initiative Competitive Grants Program (NRI)</i>	87
<i>Pest Management Alternatives Program</i>	89
<i>Renewable Energy Systems & Energy Efficiency Improvements Program</i>	90
<i>Scientific Cooperation and Research</i>	91
DEPARTMENT OF COMMERCE	93
<i>Advanced Technology Program</i>	95
<i>Climate and Atmospheric Research Program</i>	97
<i>Hydrologic Research Program</i>	99
<i>Meteorologic and Hydrologic Modernization Development Program</i>	101
<i>National Marine Sanctuary Program</i>	102
<i>National Undersea Research Program</i>	104
<i>Sea Grant Support Program</i>	106
DEPARTMENT OF DEFENSE	108
<i>Air Force Defense Research Sciences Program</i>	110
<i>Civil Engineering Program</i>	112
<i>Defense Advanced Research Projects Agency (DARPA) Programs</i>	114
<i>Military Medical Research and Development Program</i>	116
<i>Research and Technology Development Program</i>	118
<i>Space Vehicles Program</i>	119
<i>U.S. Display Consortium Program</i>	121
DEPARTMENT OF ENERGY.....	123
<i>Conservation Research and Development</i>	124
<i>Cooperative Automotive Research for Advanced Technology (CARAT) Program</i>	126
<i>Defense Nuclear Nonproliferation Research</i>	127
<i>Environmental Management Science Program</i>	128
<i>Fossil Energy Research and Development Program</i>	129
<i>Inventions and Innovation Program</i>	131
<i>Renewable Energy Research and Development Program</i>	134
<i>Stewardship Science Grant Program</i>	135
DEPARTMENT OF HEALTH AND HUMAN SERVICES	136
<i>Bioengineering Research</i>	138
<i>Injury Prevention and Control Research Program</i>	140
<i>Occupational Safety and Health Research Grants Program</i>	142
<i>Orphan Products Grant Program</i>	144
<i>Food and Drug Administration Research</i>	144
<i>NIH Grant Programs</i>	146
<i>Allergy, Immunology and Transplantation Research Program</i>	146
<i>Applied Toxicological Research and Testing Program</i>	147
<i>Arthritis, Musculoskeletal and Skin Diseases Research Program</i>	148

Federal Technology Funding Guide

2006

<i>Biological Response to Environmental Health Hazards Program</i>	148
<i>Biometry and Risk Estimation Program</i>	149
<i>Blood Diseases and Resources Research Program</i>	150
<i>Cancer Biology Research Program</i>	150
<i>Cancer Cause and Prevention Research Program</i>	151
<i>Cancer Control Program</i>	151
<i>Cancer Detection and Diagnosis Research Program</i>	152
<i>Cancer Treatment Research Program</i>	153
<i>Clinical Research Related to Neurological Disorders</i>	154
<i>Diabetes, Endocrinology and Metabolism Research Program</i>	155
<i>Digestive Diseases and Nutrition Research Program</i>	156
<i>Drug Abuse Research Programs</i>	156
<i>Heart and Vascular Diseases Research Program</i>	157
<i>Human Genome Research Program</i>	158
<i>Lung Diseases Research Program</i>	158
<i>Microbiology and Infectious Diseases Research</i>	159
<i>National Center on Sleep Disorders Research Program</i>	160
<i>Biomedical Research and Research Training</i>	161
<i>Oral Diseases and Disorders Research Program</i>	161
<i>National Center for Research Resources</i>	162
<i>Vision Research Program</i>	163
DEPARTMENT OF HOMELAND SECURITY	164
<i>Intercity Bus Security Grants</i>	165
<i>Research Projects</i>	166
<i>Special Projects</i>	167
<i>Truck Security Program</i>	168
DEPARTMENT OF THE INTERIOR	169
<i>Earthquake Hazards Reduction Program</i>	170
<i>U.S. Geological Survey Research and Data Acquisition Program</i>	172
<i>National Spatial Data Infrastructure Cooperative Agreements Program</i>	173
<i>National Center for Preservation Technology and Training Program</i>	174
DEPARTMENT OF JUSTICE	176
<i>Crime Victim Assistance/Discretionary Grants</i>	177
<i>National Institute of Justice Research, Evaluation & Development Grants</i>	180
DEPARTMENT OF TRANSPORTATION	181
<i>Aviation Research Grants Program</i>	182
<i>Innovations Deserving Exploratory Analysis (IDEA) Program</i>	183
ENVIRONMENTAL PROTECTION AGENCY	185
<i>Surveys, Studies, Investigations and Special Purpose Assistance</i>	186
<i>Biological Sciences Program</i>	189
<i>Computer and Information Science and Engineering Program</i>	191
<i>Engineering Grants Program</i>	193
<i>Geosciences Program</i>	195
<i>Mathematical and Physical Sciences Program</i>	197



Federal Technology Funding Guide **2006**

<i>Polar Programs</i>	199
<i>Social, Behavioral, and Economic Sciences</i>	201
WEBSITE INDEX	203

INTRODUCTION

Federal Technology Funding Guide

2006

Larta published the first edition of the Federal Technology Funding Guide in 1998 as a tool for its own portfolio of early-stage grantees under the State of California's funding program Caltip. Over the years, we have recognized the growing importance of federal government spending as a cornerstone of science and technology development. As we move into 2007, the central place occupied by the federal government in promoting the development of science and technology has been even more broadly recognized, consistent with new – or evolving – national missions in homeland defense and security, the life sciences, both in pharmaceuticals, therapeutics and devices, and in the foundational area of nanotechnology and material sciences. While government does not move markets, it is a key influencer, and in these areas and many others, acts as a signal to the development of new products and services. And this is where the Federal Technology Funding Guide comes in, serving as a critical tool for winning federal R&D money. It is no surprise that the Guide has emerged as Larta's most popular and accessible publication. Indeed, Larta has itself used the information compiled in this report. We work with federally funded companies in commercializing their products and this tool is invaluable to us.

In addition to the continued emphasis on SBIR and STTR programs, this year's Guide also focuses on the overall FY2006 federal R&D budget. Several research priorities are highlighted in this year's budget, including homeland security, energy, nanotechnology, life sciences, cleantech, and information technology. In order to make the Guide more comprehensive and more useful, a section on general grant proposal information is added. This section briefly describes the components in a grant proposal as well as tips on how to write a successful proposal.

The tools of electronic communication, especially newsletters (push) and Web sites (pull) has enabled more frequent updates, greater flexibility and faster response times. Federal agencies increasingly are using these tools to reach a wide and dispersed audience. This is why we have also added a section on the grant-related electronic newsletters offered by various agencies. A brief overview of each profiled newsletter is accompanied by a direct link, which will allow you to sign up directly. We encourage you to take advantage of this feature, and thereby always be able to receive the latest news on RFP and other funding information. Also, an increasing number of federal agencies now require electronic proposal submissions in an effort to reduce the amount of paperwork; you should carefully review the table on p. 16 of the Guide to see if this applies to you.

The Guide also categorizes, catalogs and comments on over 80 regularly scheduled programs, lists hundreds of links and resources, and provides a clear, simple, and up-to-date picture of the entire landscape of federal funding for technology-based firms. The Federal Technology Funding Guide makes it easier for you to compete for government R&D money. Use this opportunity to take your technology to the next level.

Please note that numbers, contacts and information do change. Larta Institute has gathered the information for this guide from publicly available sources and is not responsible for the accuracy of the information herein.

Good luck,

Rohit K. Shukla
Founder & Chief Executive Officer
Larta Institute

Organization of the Guide

We have kept this Guide organized in the same simple and informative way it has been organized for years. It is divided into three major sections:

Section I. Overview of Federal Funding Programs gives a brief analysis of the structure of federal R&D programs. This section gives an overview of mission and non-mission R&D, R&D personnel, and a brief synopsis of how the process works. Included here is a special section on the overall federal research budget for FY 2007.

Section II. Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) describes the federal government's two chief programs for small business R&D. Phase I of each of these programs researches the feasibility of scientific ideas, while Phase II is for principal research and prototype development leading to commercialization. Only Phase I winners can apply for Phase II awards.

Section III. Regular Programs details over 80 regularly scheduled federal funding programs. This section contains an **Analysis of Program Descriptions**. These programs are listed alphabetically and by each department. The majority of the programs listed is specific line items in the federal budget, and can be identified by their numbers in the Catalogue of Federal Domestic Assistance ([CFDA](#)), a compendium of federal assistance programs. Many of these programs are currently accepting applications.

The **Table of Contents** lists these programs according to this organization. The **Index**, immediately following the Table of Contents, identifies pertinent pages according to technology area

Six First Steps to Applying for Federal Technology Funding Programs

1. Examine this Guide. Find programs that match your technology area or proposed project, and that satisfy your project's funding requirements. Pay attention to the "Application Results" section for regularly scheduled programs, to examine your chances of winning federal funding.
2. For some additional information on the regular programs here are a few starting points:
 - The online Catalog of Federal Domestic Assistance (CFDA) provides access to a database of all federal programs available to state and local governments (including the District of Columbia); federally-recognized Indian tribal governments; territories (and possessions) of the U.S.; domestic public, quasi-public, and private profit and nonprofit organizations and institutions; specialized groups; and individuals. Program descriptions can be found at <http://www.cfda.gov/>

Federal Technology Funding Guide

2006

- FirstGov.gov, the official gateway to all federal government information, is the catalyst for a growing electronic government. More than 186 million web pages are available for search on FirstGov.gov with information from federal and state governments, the District of Columbia and U.S. territories. Most of these pages are not available on commercial websites. www.firstgov.gov
 - Grants.gov encompasses over 1,000 grant programs offered by the 26 federal grant-making agencies. It streamlines the process of awarding more than \$400 billion annually to state and local governments, academia, not-for-profits and other organizations. www.grants.gov
 - FedBizOpps.gov is the single government point-of-entry (GPE) for federal government procurement opportunities over \$25,000. Through one portal - FedBizOpps (FBO) - commercial vendors seeking federal markets for their products and services can search, monitor and retrieve opportunities solicited by the entire federal contracting community. www.fedbizopps.gov
3. If the program has a website, access the website before contacting the contact person. Make sure to check the website's FAQ section to see if your inquiry has been answered. Due to the large volume of emails received by federal agencies, they may not be able to answer specific inquiries on a timely basis. If the program does not have a website, try accessing the corresponding federal agency's contracts and grants website. All 11 departments and agencies listed in Section I of this Guide have a site with information regarding funding processes. Please see the Website Index (p. 200) for specific web addresses.
 4. Once you have obtained as much information that is available online, or at the library, contact the program contact. If available, obtain a copy of the full solicitation or publication that describes the program. If the program is of particular interest, ask to be placed on the mailing list if one exists. *Be persistent because these people are often difficult to reach!*
 5. Many programs encourage informal discussion with technical contacts. Be prepared to discuss specific technology areas and projects with the technical contact. In some cases, be prepared to submit a short—often less than five pages—concept paper (“white paper”).
 6. Understanding and winning federal funding can often be challenging to companies inexperienced with the various processes involved. Larta Institute provides services to select companies interested in applying for government assistance for R&D and business development. We also produce seminars and workshops throughout the year that offer timely, targeted information on how to obtain government assistance. For more information, contact Carlos Gutierrez, Chief Strategy Officer, Larta Institute, at (213) 765-4833.

Federal Technology Funding Guide 2006

General Guidelines to Writing and Submitting a Proposal

Know Your Reviewers

In general, proposal reviewers can be separated into two groups: administrative and technical. They will evaluate the proposals differently, so it is important to know who will make the award decision and what factors they consider important.

Administrative reviewers will look for the following components:

- Completeness of the proposal.
- Whether the research respond to the solicitation.
- Overall project cost.
- Company and personnel stability.

Technical reviewers will look for the following components:

- Significance of the research objective.
- The technical background and credibility of the Principal Investigator.
- Ability to succeed based on the company's personnel, equipment, facilities, etc.
- Potential value if the research does succeed.

Proposal Format

The following sections are typically included in a proposal. However, requirements may vary between agencies or from year to year. Please read each solicitation carefully as requirements may have changed.

Cover page
Summary/Abstract
Understanding of problem
Technical objectives
Work plan
Related work
Related to future research or R&D
Commercialization strategy
Key personnel
Facilities/equipment
Subcontractors/consultants
Prior, current, or pending government awards
Cost proposal or budget

Federal Technology Funding Guide 2006

Budget

The budget structure of the proposal could be the determining factor in an application. Other than the technical aspects of proposed research, the proposal's success is also determined by cost, as with any government project. A typical budget includes the following items.

Direct Cost

- Salaries
- Fringe Benefits
- Equipment
- Materials and Supplies
- Travel
- Consultants
- Subcontracts

Indirect Cost

- Facilities & Administrative Costs

Additional budget documents may include current and pending support, including other government awards and matching fund from other sources.

Submission Guidelines

More and more federal agencies are transitioning toward complete electronic submissions of research proposals. The following table summarizes each agency's requirements; the information is up-to-date as of November 2006.

Electronic Submissions Only	Hard Copies Only	Both are Accepted
Department of Education Department of Energy Department of Homeland Security NASA National Science Foundation USDA	Department of Commerce (NOAA and NIST) EPA NIH	Department of Defense* Department of Transportation

* Vary by individual components within DoD.

DUNS Number

A Data Universal Numbering System or DUNS number is a unique nine-digit sequence used for identifying businesses worldwide. The U.S. Government requires that a business must have a DUNS number before submitting a SBIR proposal.

DUNS numbers are assigned by the commercial firm of Dun and Bradstreet (D&B). The cost to obtain the number is free. There are two ways to request a DUNS number.

Federal Technology Funding Guide 2006

1. Toll free phone line for federal grant applicants: **1-866-705-5711**
The following information is needed when applying for a number: legal name of organization, physical address, telephone number, Web address, name of the authorizing official (e.g., president, director, etc.), the purpose of your organization, and the total number of employees.

Note: a business should receive a DUNS number within one day of the phone request.

2. Apply online through the D&B website: <http://www.dnb.com/us/>

Note: it may take up to 30 days for online processing

To avoid duplication, please check whether your organization has a DUNS number before applying for a new one. This can be done through operator assistance or by searching the online company directory.

Federal Technology Funding Guide

2006

Agency Newsletters

A good way to get up-to-date government funding information and related news is through the electronic newsletters published by most federal agencies. Some of them will have research-related newsletters while others have general agency-wide newsletters. Below is a detailed list of agencies that offer newsletters or listservs and how to sign up. The majority of the newsletters will be delivered through email.

Department of Agriculture (USDA)

CSREES Update: a biweekly newsletter for research, extension, and education partners at land-grant and other institutions.

To subscribe: send an e-mail message to jrude@csrees.usda.gov with the text “subscribe csrees-update” as the body message.

Archives: <http://www.csrees.usda.gov/newsroom/newsletters/update.html>

NIST

Technology at a Glance: a quarterly publication with information regarding research results, funding programs, and manufacturing extension and technology services.

To subscribe: http://www.nist.gov/public_affairs/tagform.htm. Hard copies are also available upon request.

Archives: http://www.nist.gov/public_affairs/taglance/archive.htm

NIST Tech Beat: a biweekly newsletter highlighting recent research results and other news.

To subscribe: http://www.nist.gov/public_affairs/mailform.htm

Archives: http://www.nist.gov/public_affairs/techbeat/archive.htm

Department of Defense

Maintains a listserv for a variety of information, including press releases, contract announcements, and Today in DoD.

Today in DoD: daily events announcements

To subscribe: <http://www.dod.gov/news/subscribe.html>

SBIR/STTR listserv: information regarding upcoming DoD SBIR/STTR solicitations.

To subscribe: send an email to sbirlist@listserv.dodsbir.net with the subject “SUBSCRIBE”.

Department of Education

DoE offers several publications ranging from information regarding legislation, for teachers, and for the private sector.

The Education Innovator: a weekly newsletter featuring innovation in education.

To subscribe: http://epos.edpubs.org/edpubs_report/EducationInnovator/Newsletterd.asp

Archives: <http://www.ed.gov/news/newsletters/innovator/index.html>

Federal Technology Funding Guide 2006

Department of Energy

SBIR/STTR Mailing List: join this mailing list and receive solicitation notifications.

To subscribe: fill out online form at <http://www.science.doe.gov/sbir/mailform.asp>

DOE Pulse: a biweekly newsletter featuring the research being performed in DoE's national laboratories. Available in both HTML and PDF formats.

To subscribe: <http://www.ornl.gov/info/news/pulse/>

Archives: same link as above.

Fossil Energy News Alerts: distributed by the Office of Fossil Energy on an irregular basis.

To subscribe: <http://www.fe.doe.gov/news/newsalerts.html>

EERE News: released by the Office of Energy Efficiency and Renewable Energy, this is a weekly publication with information regarding news and developments in this area.

To subscribe: <http://www.eere.energy.gov/news/subscribe.cfm>

Archives: http://www.eere.energy.gov/news/archive_index.cfm

FLC Newslink: published by the Federal Laboratory Consortium For Technology Transfer, this monthly publication highlights news in tech transfer, including licensing and funding issues. Electronic copies are available in PDF format; hard copies can also be obtained.

To subscribe: <http://www.federallabs.org/servlet/FLCItemDisplayServlet?wItemID=2000-06-06-16-31-50-120-Item>

Archives: <http://www.federallabs.org/newslink/archive.html>

Department of Health and Human Services

NIH offers a listserv for its press releases via the Web.

To subscribe: <http://list.nih.gov/cgi-bin/wa?SUBED1=nihpress&A=1>

Archives: <http://www.nih.gov/news/pr/archives/index.htm>

SBIR/STTR listserv: timely information regarding the NIH SBIR/STTR Programs.

To subscribe: send an email to LISTSERV@LIST.NIH.GOV with the following text in the message body: *subscribe SBIR-STTR <your name>* (e.g. *subscribe SBIR-STTR Jane Doe*)

Department of Homeland Security

The Department of Homeland Security offers a mailing list, which enables subscribers to receive department news and upcoming solicitation announcements.

To subscribe: <http://www.davincinetbook.com/hsarpa/listserv/listserv.asp>

The Department of Transportation

DoT offers a listserv to the general public. Mailings include the latest news and information from the following nine intradepartmental administrations.

- U.S. Coast Guard
- Federal Highway Administration
- Federal Railroad Administration

Federal Technology Funding Guide 2006

- National Highway Traffic Safety Administration
- Federal Transit Administration
- Saint Lawrence Seaway Development Corporation
- Maritime Administration
- Research and Special Programs Administration
- The Bureau of Transportation Statistics

To subscribe: send an e-mail message to listserv@listserv.dot.gov. In the body of the message, type “subscribe dotnews” (without the quotation marks.)

FAA Intercom: The Federal Aviation Administration’s monthly newsletter, which includes new FAA policies and procedures, as well as other news.

Archives: copies of past and current newsletters can be found at <http://www.faa.gov/newsroom/Newsletter.cfm>

Environmental Protection Agency

EPA has more than 80 listservs ranging from specific topics such as water quality and emission data to organizational news.

To subscribe: please follow the instructions on this website

<http://www.epa.gov/epahome/resource.htm>

NCER Mailing List: announcement regarding the latest funding opportunities and research developments in specific areas.

To subscribe: http://cfpub.epa.gov/ncer_list/elists/

National Aeronautics & Space Administration

Scientific and Technical Aerospace Reports (STAR): a biweekly newsletter highlighting the latest NASA R&D efforts.

To subscribe: please follow the instructions on this website

<http://www.sti.nasa.gov/starnotify.html>

Archives: <http://www.sti.nasa.gov/Pubs/star/star.html>

National Science Foundation

Custom News Service: the general NSF mailing list lets users choose the types of news they want to receive and when to receive it.

To subscribe: use this link <http://www.nsf.gov/home/cns/index.cfm>

Small Business Administration

SBA publishes newsletters for small businesses in different states with region-specific news and issues.

SBA Solutions: general agency newsletter providing news, alerts, and program highlights.

To subscribe: <http://web.sba.gov/list/>

Section I Overview of Federal Programs

Federal Technology Funding Guide

2006

Structure of Federal R&D Programs

Under the FY 2007 budget request, total federal funding for R&D in FY 2007 would rise to \$136.8 billion. That is an increase of \$1.64 billion or 1.2% from FY 2006 levels.

Mission and Non-Mission R&D

Mission-related R&D programs further an agency's operations. Mission-related R&D may have commercial (i.e. non-governmental) applications, but the project must first meet the funding agency's goals. Mission programs are often solicited at specific times for specific projects. For example, the Air Force funds research to reduce atmospheric effects on aircrafts, and the Department of Energy funds research to treat waste at its nuclear weapons complexes. The largest source of mission-related research is the Department of Defense, which principally funds applied research.

Non-mission related R&D programs promote general welfare. These programs are often termed "unsolicited" and operate on regular schedules. Also, they often have no deadlines, so businesses may submit proposals at any time. For example, the Department of Agriculture funds research to develop better quality crops, and the National Institutes of Health (NIH) funds research to control cancer. The agencies fund these programs to improve society rather than further their own operations. Programs in Section III of this Guide are non-mission related. The largest sources of non-mission-related research funding come from the National Science Foundation (NSF) and the National Institutes of Health (NIH), which often fund unsolicited basic research.

R&D Personnel

In general, two classes of civil servants administer R&D funds: program managers and contracting officers. In most cases, program managers run the program, oversee the program design, and may help evaluate the applications. Contracting officers, on the other hand, often process initial applications and are responsible for funding the R&D once the winning applications are selected.

Federal Technology Funding Guide

2006

How the Process Works

In general, federal R&D programs work in four steps: announcement, application, review, and notification. For unsolicited proposals, which may be submitted at any time, no announcement exists except in documents such as the [Catalog of Federal Domestic Assistance](#).

Any topic relevant to an agency's program area may be submitted as an unsolicited proposal, although these sources of funding are often the most competitive.

Announcement

A federal agency, military base, or department division will often issue a Request for Proposals (RFPs) that describes the general topic area. Agencies also issue "Program Announcements" that describe proposals and deadlines.

Organizations in the Department of Defense often issue Broad Agency Announcements (BAAs) that request pre-proposals. Pre-proposals are generally short concept papers or "white papers." Despite their short length, white papers must also conform to certain agency standards. After the agency reviews pre-proposals, specific applicants are invited to submit full proposals.

Some programs do not follow this format. These programs may be announced in the Federal Register, a document that chronicles federal activity. Certain programs may also issue RFPs via mailing lists.

Application

Program solicitations are generally announced through publications such as the Federal Register, professional trade journals, agency or program handbooks, the Catalog of Federal Domestic Assistance, among others. Applicants can request the full solicitation from program contacts. The full solicitation includes more detailed topic areas, instructions on how to apply, and how the project will be evaluated.

In most cases, informal contact with a program administrator is recommended.

Review

Once proposals are received, they are reviewed internally and often externally (i.e., outside the agency) through peer review. Peer review generally refers to review by outside scientists trained in the proposal subject area; it may also refer to other outside experts.

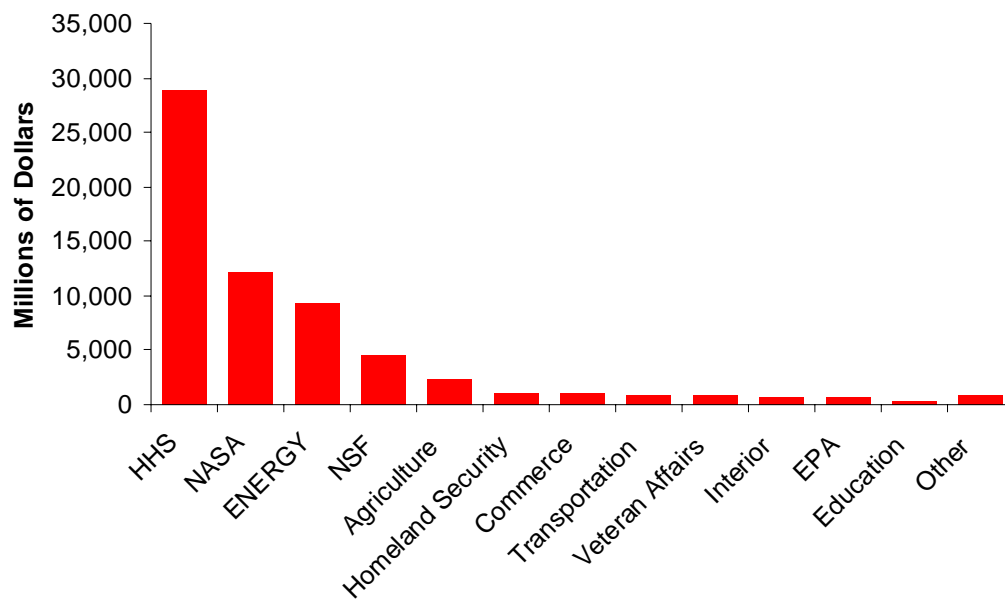
Federal Technology Funding Guide

2006

Special Section: FY 2007 Federal Research Budget Overview

Each year, more than 20 federal agencies receive R&D funding from the federal government. The proposed FY 2007 Federal R&D Budget is approximately \$131 billion, more than half of which is allocated to the Department of Defense (76.6 billion). The next biggest agency in terms of funding is the Department of Health and Human Services, which receives close to \$29 billion. All other federal agencies that have research components will split a little over \$34.2 billion. The following chart summarizes the FY 2007 non-defense funding, which includes all agencies other than the Department of Defense.

FY2007 Non-Defense Federal Research Funding Breakdown



Science and Technology (S&T) Budget

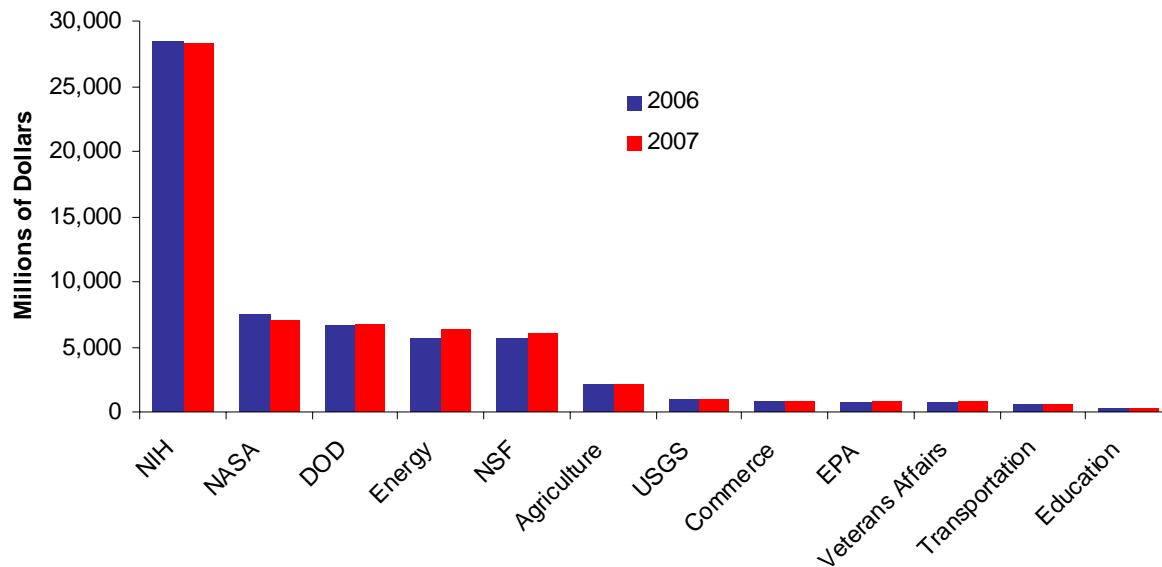
Overall, the proposed FY 2007 Federal Science and Technology (S&T) Budget is \$67.3 billion, which represents a \$1.45 billion or 0.2% increase from 2006. The Department of Homeland Security and Department of Commerce will experience double-digit budget cuts; while other departments will experience minor funding cuts or increases.

The Science and Technology Budget originated from a 1995 National Academy of Sciences Report with the goal of better track and evaluate public R&D investment. It differs from the general federal research budget in that the S&T budget does not include major systems development funding provided by the Department of Defense and the Department of Energy. The S&T budget also contains a development component, and a research equipment and

Federal Technology Funding Guide 2006

facilities component. The majority of the budget is used toward basic and applied research projects.

FY2007 Federal Science and Technology Budget



Research Priorities

The 2007 federal R&D budget highlights numerous research priorities, some as a part of growing trends, and some as the President’s initiatives to aid the U.S. economy. The following sections outline the key R&D topics emphasized in this year’s budget.

Homeland Security¹

An estimated \$4.8 billion will be allocated toward homeland security R&D in 2007, including interagency research initiatives. One of the top research objectives is enhancing the detection, treatment and remediation of chemical, biological and radiological threats. Departments involved include the Department of Agriculture, the Department of Health and Human Services, Department of Homeland Security, Environmental Protection Agency, and Department of Defense.

Other homeland security research objectives:

- Expanding Project BioShield, a project aimed at developing the next generation medical countermeasures against WMD.
- Improving food, agriculture, and drinking water safety.

¹ “Research and Development Funding in the President’s 2007 Budget: Homeland Security”

Federal Technology Funding Guide

2006

- Biosurveillance initiative with the goal of increasing the speed of response to potential terrorist attacks and improving the information flow of biosurveillance data.
- Countering radiological and nuclear threats by investing in threat assessment and systems for detection.

Energy Efficiency¹

The Hydrogen Fuel Initiative (HFI), which focuses on the development of hydrogen-based energy sources, will receive \$289 million in funding in FY 2007, a \$59 million increase from 2005. Mainly supported through the Department of Energy's Office of Science, HFI encourages R&D on hydrogen production from various sources, including renewable energy and nuclear energy. Another part of the initiative is to develop and produce cost-efficient hydrogen fuel cells for automobiles with the goal of having hydrogen-powered vehicles be commercially available in 2015. Most of the 2007 HFI funding will be new research funding as it represents an expansion from previous research efforts.

Innovation²

One of the President's top research priorities in 2007 is to promote innovation in various areas with the goal of increasing U.S. competitiveness and strengthening the private sectors. Specific focus topics include:

- Manufacturing. On Feb. 26, 2004, the President issued Executive Order 13329, "Encouraging Innovation in Manufacturing", to ensure that funding will be provided to U.S. manufacturers. Consequently, a number of the agencies that participate in the SBIR/STTR program chose to make manufacturing one of their top research priorities in FY 2005 (for more information, please refer to Section II of the Guide). Other departments are also affected by this initiative, including the National Science Foundation's (NSF's) Design, Manufacture, and Industrial Innovation Division, and the Manufacturing Engineering Laboratory at NIST.
- Private Sector Investment. To encourage continuing private sector R&D investment, the FY 2005 budget made the Research and Experimentation tax credit permanent.
- Intellectual Property. In recognition of the importance of intellectual property protection in a market economy, more than \$1.8 billion in funding will be provided to the U.S. Patent and Trademark Office.

Nanotechnology³

Nanotechnology is the science of developing new materials and processes through atomic engineering, i.e. controlling particles at the molecular level. Advancements in this field will lead

¹ "Research and Development Funding in the President's 2007 Budget: Hydrogen Fuel Initiative"

² "Research and Development Funding in the President's 2007 Budget: Promoting Innovation"

³ "Research and Development Funding in the President's 2007 Budget: National Nanotechnology Initiative"

Federal Technology Funding Guide 2006

to improvements in areas such as medicine, manufacturing, information technology, and energy supply. In 2004, the President signed the 21st Century Nanotechnology Research and Development Act to support this area of research. In FY 2007, \$1.3 billion will be provided for the National Nanotechnology Initiative (NNI).

The following ten federal agencies currently participate in NNI activities. Departments in **bold** receive more than \$200 million in nanotechnology funding.

- NIST, Department of Commerce
- Department of Justice
- **Department of Defense**
- Environmental Protection Agency
- **Department of Energy**
- National Aeronautics and Space Administration
- NIH and CDC, Department of Health and Human Services
- **National Science Foundation**
- U.S. Department of Agriculture
- Department of Homeland Security

NNI will continue to focus on applied research through investigator-led activities, and explore social issues related to nanotechnology, including ethical and legal implications. For more information on NNI, please visit <http://www.nano.gov/>

NASA⁴

As a part of a long-term goal to continue the investigation of human and robotic space exploration opportunities, several NASA research objectives are included in the FY 2005 budget.

- Exploration of the Solar System NASA will use \$16.79 billion to fund exploration activities, including a human return to the Moon by 2020. Human missions to Mars are also considered.
- Space Science The budget will support robotic exploratory missions to the Moon and Mars. It also funds the construction and operation of the next generation of space observatories with the hope of gaining a deeper understanding of the universe.
- Developing Infrastructure Initiatives include committing U.S. research on the International Space Station, developing processes to decrease the cost of future explorations, and pursuing optical communication resources to increase data transmission rates in space.
- Improving Life on Earth Space observations can help enhance life on Earth by improving weather forecast abilities and monitoring global climate change. This area of funding also supports education objectives.

⁴ "Research and Development Funding in the President's 2007 Budget: Space Exploration"

Federal Technology Funding Guide 2006

Networking and Information Technology R&D Program⁵

An interagency research initiative, the Networking and Information Technology R&D Program (NITRD) will receive \$3.07 billion in 2007 under the current budget proposal. The National Science Foundation (NSF) receives a little more than one-third of the funding. This reflects NSF's leadership role in this program as well as its mission to support research across all science and engineering disciplines. Other agencies that participate in this program are Health and Human Services, the Department of Energy, NASA, the Department of Defense, the Department of Commerce, and the Environmental Protection Agency. Each agency will explore the research objective according to its own specific needs. In addition, high-end computing is another priority within NITRD. High-end computing refers to advance computing systems in both the hardware and software levels. Examples include complex modeling, simulations, and calculations used in biomedical and engineering fields. For more information, please visit the program website at <http://www.nitrd.gov/>

⁵ "Research and Development Funding in the President's 2005 Budget: Networking and Information Technology"

Section II SBIR and STTR Programs

Federal Technology Funding Guide

2006

SBIR and STTR Programs

Each year, 11 federal departments and agencies set aside a certain amount of their R&D funding for small businesses through the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs.

For both programs, funding is awarded competitively and *businesses retain the patent rights to any inventions they develop*. The SBIR program has been authorized through FY 2008, and the STTR program has been authorized through FY 2009.

Small Business Innovation Research Program

Established as a part of the Small Business Innovation Development Act in 1982, the SBIR program enables small high technology businesses to compete on the same level as larger businesses by providing them competitively awarded grants for product innovation. The SBIR Program helps small high technology companies by funding the critical start-up and R&D stages of development, often the most risky and expensive.

SBIR grants help federal agencies meet agency research needs while enabling small companies to conduct R&D programs aimed at product commercialization. The participating federal agencies in this program have annual extramural R&D budgets of over \$100 million and allocate at least 2.5% of their budgets (up from 1.25% in the past) for the SBIR program.

The Three Phases of the SBIR Program

Phase I: Feasibility Study

- Phase I is a six to nine month feasibility research project with an experimental or theoretical investigation of the proposed idea or approach. The proposal should cover research that will prove the technical feasibility of the approach as well as its ability to show progress to justify a larger investment in Phase II. Awards last up to nine months in amounts up to \$100,000.

Phase II: Principal Research and Prototype Development

- Phase II is the principal research effort. For many projects, this will be the part of the program where a prototype is developed. **Only those firms receiving Phase I awards will be eligible to submit Phase II proposals**; Phase II proposals can only be submitted to the agency that awarded the Phase I award. Awards last up to two years for up to \$750,000.

Phase III: Commercial Development

- Phase III commercial development arises from the research conducted under Phases I and II. Phase III is not funded by the federal government's SBIR Program, although non-SBIR federal agencies may support Phase III efforts. Phase III is normally carried out through either government procurement under a non-SBIR program or follow-on private sector funding. However, federal agencies consider Phase III planning an essential component of the SBIR program; one of the key goals of the SBIR Program is transforming agency-supported research into commercial applications.

Federal Technology Funding Guide

2006

Additional SBIR Information

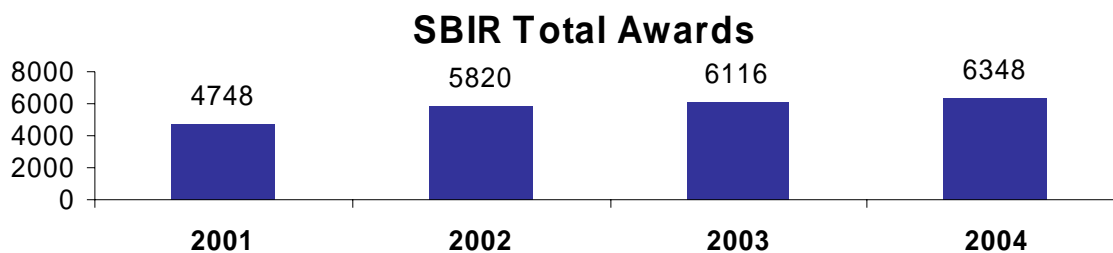
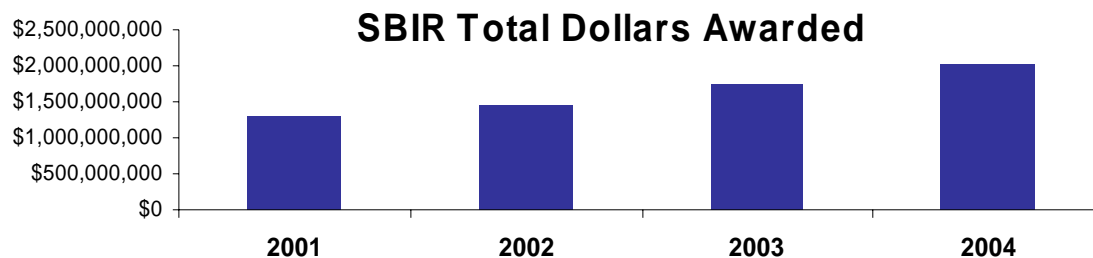
Each participating federal agency designs its own SBIR program, releases a solicitation, evaluates the proposals, and awards funding.

Through its SBIR program, each agency develops topics and publishes solicitations describing those topics. Proposals are submitted to the agency where they are reviewed and evaluated on a competitive basis. Each agency makes its own awards using contracts, grants, or cooperative agreements. Awards are made to small companies, which show that they are able to perform innovative R&D that serves the particular department or agency's needs – and which may have potential commercial applications. Commercialization, which is defined as transitioning technology to appropriate markets (military, the private sector, or to other government agencies), is the fundamental measure of the SBIR program's success.

SBIR Program Data⁶

FY	2001	2002	2003	2004
Total Phase I awards	3215	4243	4352	4304
Total Phase I dollars awarded (\$)	\$317,094,000	\$411,468,000	\$465,414,605	\$497,074,058
Total Phase II awards	1533	1577	1764	2044
Total Phase II dollars awarded (\$)	\$977,343,000	\$1,023,364,000	\$1,293,530,482	\$1,517,511,849
Total awards	4748	5820	6116	6348
Total dollars awarded (\$)	\$1,294,437,000	\$1,434,832,000	\$1,758,945,087	\$2,014,585,907

Data given in thousands of dollars.



⁶ U.S. Small Business Administration, "SBIR and STTR Programs," <http://www.sba.gov/sbir/indexsbir-sttr.html>

Federal Technology Funding Guide 2006

Top Ten SBIR Award Receiving States 2001-2004

FY	2001		2002		2003		2004	
1	California	\$258,581,108	California	\$299,262,647	California	\$385,672,622	California	\$415,698,563
2	Massachusetts	\$167,527,467	Massachusetts	\$215,459,825	Massachusetts	\$242,349,779	Massachusetts	\$277,575,983
3	Virginia	\$71,591,514	Virginia	\$89,717,760	Maryland	\$96,583,463	Maryland	\$113,599,253
4	Colorado	\$55,749,148	Maryland	\$74,284,167	Virginia	\$96,533,591	Virginia	\$111,459,615
5	Maryland	\$53,930,462	Colorado	\$74,253,206	Colorado	\$80,935,801	New York	\$99,760,156
6	Ohio	\$48,962,548	Ohio	\$63,526,667	New York	\$78,727,244	Texas	\$89,646,772
7	Pennsylvania	\$42,635,988	New York	\$62,654,013	Ohio	\$74,456,522	Colorado	\$88,903,493
8	Texas	\$41,459,987	Pennsylvania	\$54,884,835	Pennsylvania	\$73,032,625	Pennsylvania	\$71,769,199
9	New York	\$38,270,470	Texas	\$53,422,476	Texas	\$69,707,720	Ohio	\$71,230,736
10	New Jersey	\$31,296,151	New Jersey	\$46,609,103	Michigan	\$42,059,369	New Jersey	\$60,477,187

Approximately 40% of the Phase I award winners go on to receive Phase II funding. Follow-on funding, or funding that businesses seek from non-federal sources to aid in product commercialization during Phase III, is highly encouraged. When evaluating two Phase II proposals of equal technical merit, follow-on funding is considered as a tiebreaker in the evaluation process.

SBIR Eligibility Requirements

- Applicant must be a “small business” according to the Small Business Administration’s current definition: less than 500 employees (including affiliates, parent companies, and/or investment firms).
- Must be organized as a for-profit, independently operated with at least 51% U.S. ownership or *it must be a for-profit business that is at least 51% owned and controlled by another for-profit business with at least 51% U.S. ownership. This is a rule change effective Jan. 3, 2005.* Under this rule change, subsidiaries of eligible SBIR companies may also be eligible for award consideration. Previously, all subsidiaries were ineligible.
- Must be located in the U.S.
- Firms must be capable of conducting high-quality research.

Small businesses conforming to the previous criteria must also meet the following to be eligible for an SBIR award:

- The Principal Investigator (PI)⁷ involved in the research must be primarily employed by the proposing small business.

⁷ The principal investigator is the individual bearing primary responsibility for all essential aspects of the work being carried out, including technical

Federal Technology Funding Guide 2006

- The P.I. is not required to have a Ph.D., but must possess technical and scientific acumen essential to overseeing the project.
- Applications can be submitted to multiple agencies for similar work; awards *cannot* be accepted from several agencies for identical projects.
- Research partners or subcontractors can participate up to one-third of Phase I and half of Phase II R&D. However, the award will always be issued to the small business.
- All work must be conducted in the U.S.

Evaluation Criteria

While the criteria differ by agency, it typically includes:

- The significance and originality of the proposed research
- The appropriateness of the methodologies to achieve the objectives as defined
- The qualification and experience of the investigator(s)
- The suitability of the available facilities
- The relevance of the submitted budget to the work to be done

Program Schedule of SBIR Solicitations - FY 06-07*

AGENCY	RELEASE DATE	CLOSING DATE
Department of Agriculture	September 1, 2006	February 1, 2007
Department of Commerce		
NIST	November 1, 2004	January 28, 2005
NOAA	October 2, 2006	January 17, 2007
Department of Defense		
SBIR Solicitation 2007.1	November 6, 2006	January 10, 2007
SBIR Solicitation 2007	January 22, 2007	March 21, 2007
SBIR Solicitation 2007.2	April 12, 2007	June 13, 2007
SBIR Solicitation 2007.3	July 19, 2007	September 19, 2007
Department of Education		
Office of Special Education and Rehabilitative Services (OSERS)	November 6, 2006	January 8, 2007
Department of Energy	September 9, 2006	November 21, 2006
Department of Health & Human Services		
PHS 2006-1 SBIR Contract Solicitation	August 4, 2006	November 6, 2006
PHS 2005-2 SBIR/STTR Grant Solicitation	January 1, 2007	April 5, 2007 August 5, 2007 December 5, 2007
Department of Homeland Security		

compliance, completion of programmatic work, fiscal stewardship of sponsored funds, and compliance with administrative requirements of the project.

Federal Technology Funding Guide 2006

SBIR FY06.2	September 12, 2006	November 13, 2006
Department of Transportation	February 15, 2006	May 2, 2006
Environmental Protection Agency (EPA)	March 22, 2007	May 23, 2007
National Aeronautics and Space Administration (NASA)	July 7, 2005	September 7, 2005
National Science Foundation	August 28, 2006	December 4, 2006

*Dates are subject to change by the participating federal agencies.

Please Note: The Department of Health & Human Services (Grants) has one grant solicitation and three closing dates per fiscal year. This schedule is updated every quarter. Housing & Urban Development has expressed interest, but presently lacks an SBIR program.

Federal Technology Funding Guide

2006

Small Business Technology Transfer Program

Businesses can also receive federal funding from the STTR Program, which focuses on developing collaborations between small businesses and universities (or other non-profit institutions) in joint research projects. The purpose of the STTR Program is to stimulate technical innovation, transfer technology from the public sector to the private sector, and to encourage commercialization. Moving ideas from the research institutions into the marketplace, while addressing the needs of the federal government, is the key goal of the program.

To qualify for funding under the STTR Program, small businesses must partner with one research institution. It is **mandatory** that the small business sub-contract to a non-profit R&D institution in the STTR Program.

The Small Business R&D Act of 1992 established the STTR Program. Currently, five federal departments and agencies having annual extramural R&D budgets above \$1 billion participate in this program by allocating 0.30% (an increase from 0.15% in FY 2003) of their budgets for small firms in the STTR program.

The Three Phases of the STTR Program

Phase I: Feasibility Study

- The Phase I feasibility research project involves an experimental or theoretical investigation of the approach. The proposal should cover the research necessary to take the project to the next stage. Awards last up to one year for up to \$100,000. Phase I should determine technical feasibility of the proposed idea and the ability to produce significant results before consideration of increased federal support in Phase II. The work proposed for Phase I should be suitable in nature for subsequent progression to Phases II and III.

Phase II: Principal Research and Prototype Development

- Phase II consists of the principal research effort. For many projects, this will be part of the program when a prototype is developed. Only those firms successfully completing Phase I awards will be eligible to submit Phase II proposals. A comprehensive Phase II proposal should be submitted within thirty days after the expiration date of the Phase I award. Awards last up to two years and for up to \$750,000.

Phase III: Commercial Development

- Phase III is not funded by the federal government's STTR Program. Phase III commercial development arises from the research conducted under Phases I and II. Phase III is normally carried out through either government procurement under a non-STTR program or follow-on private sector funding. However, federal agencies consider Phase III planning an essential component of the STTR Program to help convert agency-supported research into technological innovation and commercial applications.

Federal Technology Funding Guide 2006

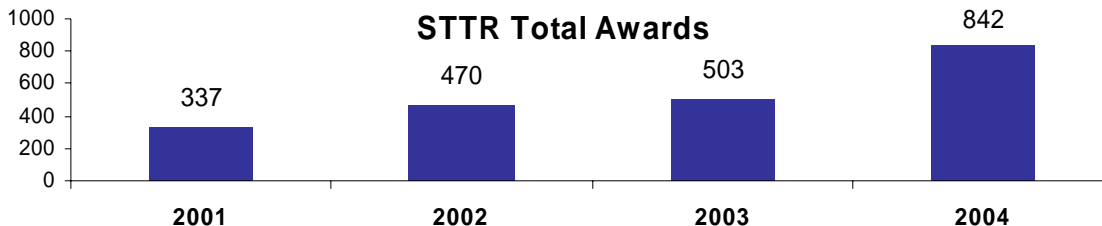
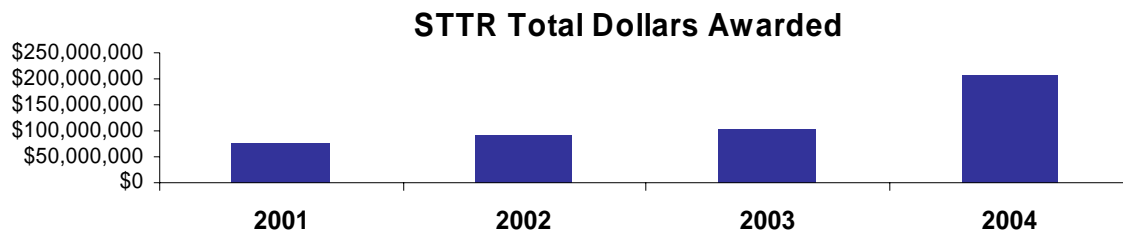
Additional STTR Information

Each participating federal agency designs its own STTR program, releases a solicitation, evaluates the proposals, and awards funding. SBIR managers typically double as STTR managers. Small businesses may participate in both SBIR and STTR programs simultaneously (at either the same or different agencies), as long as they do not perform the same work under more than one grant.

STTR Program Data⁸

FY	2001	2002	2003	2004
Total Phase I awards	224	356	394	654
Total Phase I dollars awarded (\$)	\$24,233,000	\$36,388,000	\$41,791,042	\$83,017,029
Total Phase II awards	113	114	109	188
Total Phase II dollars awarded (\$)	\$53,248,000	\$55,393,000	\$60,314,168	\$125,698,404
Total awards	337	470	503	842
Total dollars awarded (\$)	\$77,481,000	\$91,781,000	\$102,105,210	\$208,715,433

Data given in thousands of dollars.



Top Ten STTR Award Receiving States 2001-2004

⁸ U.S. Small Business Administration, "SBIR and STTR Programs," <http://www.sba.gov/sbir/indexsbir-sttr.html>

Federal Technology Funding Guide

2006

FY	2001		2002		2003		2004	
1	California	\$7,488,687	California	\$12,342,460	California	\$13,493,008	California	\$37,326,059
2	Massachusetts	\$7,300,570	Massachusetts	\$10,135,433	Massachusetts	\$13,371,294	Massachusetts	\$28,105,970
3	Virginia	\$5,583,430	Virginia	\$7,282,400	Virginia	\$8,200,744	Virginia	\$11,354,609
4	Florida	\$4,715,971	North Carolina	\$4,776,849	New York	\$7,315,705	Texas	\$11,027,766
5	Ohio	\$4,125,846	Texas	\$4,353,693	Texas	\$5,229,842	Colorado	\$9,404,372
6	New York	\$3,496,504	New York	\$4,307,375	Ohio	\$4,701,354	Pennsylvania	\$8,366,580
7	Texas	\$2,886,643	Colorado	\$3,860,084	Arizona	\$3,276,027	Florida	\$7,764,217
8	New Jersey	\$2,744,979	Pennsylvania	\$3,807,542	Illinois	\$2,880,517	Michigan	\$6,591,129
9	Colorado	\$2,315,244	Illinois	\$3,478,217	Minnesota	\$2,867,171	Maryland	\$6,501,183
10	Illinois	\$2,313,075	Maryland	\$3,439,760	Maryland	\$2,783,943	New York	\$6,174,246

Each department or federal agency participating in STTR releases an annual STTR program solicitation (refer to the Program Schedule on the next page for the most current deadlines). The solicitation states research topics consistent with agency needs and missions.

The five federal departments and agencies currently participating in the STTR program are the Department of Defense, the Department of Energy, the Department of Health & Human Services, the National Aeronautics and Space Administration, and the National Science Foundation.

Some basic characteristics of the STTR program

- Small businesses must partner with one non-profit institution (unlike SBIR)
- Small businesses are the grantees of the award
- Small businesses must perform at least 40 percent and research institutions must perform at least 30 percent of the work for both Phase I and II

Federal Technology Funding Guide 2006

STTR Eligibility Requirements

- Applicant must be a “small business” according to the Small Business Administration’s current definition: less than 500 employees (including affiliates, parent companies, and/or investment firms)
- Must be organized as a for-profit company and have at least 51% U.S. ownership
- Principal Investigator must be someone from the small business concern or the participating research institution
- Firms must be capable of conducting high-quality research
- All work must be conducted in the U.S.

Evaluation Criteria

As with the SBIR, criteria and evaluation processes differ by agency. A typical set of criteria includes:

- The significance and originality of the proposed research
- The appropriateness of the methodologies to achieve the objectives as defined
- The qualification and experience of the investigator(s)
- The suitability of the available facilities
- The relevance of the submitted budget to the work to be done

*Program Schedule of STTR Solicitations - FY 06-FY 07**

AGENCY	RELEASE DATE	CLOSING DATE
Department of Defense	November 6, 2006	January 10, 2007
Department of Energy	September 28, 2004	December 13, 2004
Department of Health & Human Services		
PHS2005-2 SBIR/STTR Grant Solicitation	January 1, 2007	April 5, 2007 August 5, 2007 December 5, 2007
National Aeronautics & Space Administration	July 7, 2005	September 7, 2005
National Science Foundation		
Advance Materials, Manufacturing, & Chem. Processes	August 28, 2006	December 4, 2006

*Dates are subject to change.

Federal Technology Funding Guide 2006

Recent SBIR/STTR Award Data*

Department of Agriculture⁹

University faculty and government scientists are strongly encouraged to be involved in USDA SBIR projects as consultants, subcontractors or PI's. As a consultant or subcontractor, they may continue to work full time at a university or government research facility. However, as a PI, they must reduce their university or government employment to 49% or less, and may not use their own research lab for the purpose of the project.

USDA estimates 90 Phase I awards will be given in FY 2007. Projects emphasizing agriculturally-related manufacturing technology, bioterrorism, and alternative and renewable energy are encouraged across all 2007 SBIR topic areas.

Research Topics

Forests and Related Resources
Plant Production and Protection, Biology
Animal Production and Protection
Soil and Water Resources
Food Science and Nutrition
Rural and Community Development
Aquaculture
Industrial Applications
Marketing and Trade
Animal Manure Management
Small Mid-Size Farms
Plant Production and Protection, Engineering

History of USDA SBIR Funding

FY	Budget	Phase I	Phase II
2000	\$15.6 M	89/480	36/59
2001	\$16.3 M	90/480	37/63
2002	\$15.7 M	86/449	39/68
2003	\$17.7 M	88/656	38/67
2004	\$18.2 M	99/582	38/65
2005	\$19.2 M	93/557	40/79

* The following SBIR information includes program overview and general SBIR solicitation information.

¹ <http://www.csrees.usda.gov/fo/sbir>

Federal Technology Funding Guide 2006

2006	\$19.2 M	97/650	32/61
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<http://www.reeusda.gov/sbir/overhead.htm#Features>

Federal Technology Funding Guide

2006

SBIR – DEPARTMENT OF AGRICULTURE GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$80,000.
- * Phase II up to \$300,000.

Principal Investigator Criteria

The individual designated by the applicant to be principally responsible for the scientific or technical direction of the work described in a proposal. Therefore, the individual should have a scientific/technical background. The Principal Investigator (PI) must be employed by the small business firm at the time of award and during the conduct of the actual research. Primary employment precludes full-time employment elsewhere.

Review Process

Phase I and II proposals will be judged competitively in a two-stage process, based primarily upon scientific/technical merit. First, proposals will be screened by USDA scientists and assigned to the appropriate topic area. There is a different review panel for each topic. Each proposal is then sent to six *ad hoc* reviewers and two members of the review panel. After all reviews are completed, proposals will be ranked, and the top ranked ones are recommended for awards.

Evaluation Criteria

USDA plans to select for award those proposals offering the best value to the nation with approximately equal consideration given to each of the following criteria, except for item 1 which will receive **double the value**:

1. The scientific/technical quality of the Phase I research plan and its relevance to the stated objectives, with special emphasis on innovativeness and originality.
2. Importance of the problem or opportunity and anticipated commercial/potential of the proposed research, if successful.

3. Qualifications of the Principal Investigator(s), other key staff and consultants, and the probable adequacy of available or obtainable instrumentation and facilities.
4. Whether the budget is appropriate for the proposed research and whether the utilization of funding is sufficiently provided.
5. How the proposed research differs from existing technology. If the small business firm or consultant has applied for a patent, then whether the proposal constitute a feasibility study.
6. The quality of the response to previous panel reviews if the proposal is a resubmission.
7. The commercial potential of the research. Applicants should indicate previous commercialization of SBIR or other research, and potential private funding for Phase II.

All applicants to the SBIR solicitations will receive verbatim copies of proposal reviews.

Formal Evaluation

After final decisions have been announced, written reviews of the proposal will be sent to the proposed Principal Investigator(s). The debriefing will not include the identity of the reviewers.

Submission of Proposals

The USDA usually releases its SBIR solicitation in June (subject to change) with proposals due in late August. Notification of proposals recommended for award or declination will be made within approximately 6 months. *Proposals will not be accepted via facsimile or email.*

The USDA will be requiring all FY2007 proposals to be submitted electronically through Grants.gov. This is a significant change, and applicants need to allow extra time and plan ahead.

To Obtain Solicitations:

Visit the USDA SBIR website at <http://www.csrees.usda.gov/fo/sbir>

Federal Technology Funding Guide

2006

Department of Commerce

The National Institute of Standards and Technology (NIST) and the National Oceanic and Atmospheric Administration (NOAA) are organizations within the DOC that administer the SBIR grants for the DOC. The NIST received 197 proposals and awarded 15 Phase I and 7 Phase II awards in FY 2005.¹

The NOAA received 118 proposals for its SBIR program and awarded 16 Phase I contracts for FY 2003. The NOAA awarded Phase I awards of up to \$75,000 each, which totaled approximately \$1.1 M for FY 2003.² It awarded a total of 9 Phase II contracts in FY 2003, which totaled approximately \$2.1 million (most recently available data).

NOAA FY 2005 Topics

Ecosystems

- Biomolecular Detection Systems for Early Diagnosis of Declines in Coral Health
- Underwater Differential Global Position System for Divers and Remote Platforms
- Quantitative Field Measurement for Dispersed Oil
- Nutrient Sensors for Observing Systems
- Aquaculture: Developing and Improving Species Culture
- Aquaculture: Water Reuse and Effluent Treatment Systems
- Aquaculture of Marine Organisms for Marine Natural Products
- Open-Ocean Aquaculture
- Disease Diagnostics and Controls
- Improved Aquaculture Diet Formulations
- Sustainable Mechanized Harvesting of the Macroalgae *Chondrus crispus*
- Inexpensive Sensors Based on Fouling for Early Warning of Contamination of Fisheries Environments
- Development of a Digital Video Plankton Recorder
- Submersible *In Situ*, Sediment Grainsize Device
- Bluefish-Specific Monoclonal Antibodies
- Engineering of New Aquaculture Containment Systems for Offshore Aquaculture in the United States Exclusive Economic Zone (EEZ)

Climate

- Climate Applications for Enhanced Decision-Making
- Autonomous pCO₂ Measurement Systems for Volunteer Observing Ships and Research Vessels
- Multi-Parameter Discrete Sample Carbon Analyzer
- Documentary Video for Climate Education and Outreach

¹ NIST SBIR program history http://patapsco.nist.gov/ts_sbir/program_history.htm

² SBIR Abstracts of Awards for FY 2003, U.S. Department of Commerce, NOAA <http://www.rdc.noaa.gov/~amd/sbirs/abstracts03.pdf>

Federal Technology Funding Guide

2006

- Automated Flask Sampler for Halocarbons and Other Atmospheric Trace Species
- Autonomous Systems for Measurement of Aerosols from Light Airplanes

Weather and Water

- Predictive Modeling of Solar Insolation in the Marine Environment for Solar Power System Applications
- NOAA Weather Radio (NWR) Broadcast Simulator
- Infield Detection of Harmful Alga Bloom Toxins and/or Toxigenic Species
- Portable HAB Monitoring System for Small Aircraft of Opportunity
- Measurement of Profiles of Temperature and Water Vapor in the Marine Environment from Moored Buoys
- Measurement of Sea Surface Salinity by Passive Microwave in the Marine Environment from Near-Surface Platforms
- Low-Cost Floating Wave Staff Data Buoys for Offshore Monitoring
- New Data Telemetry Protocol for Automated Flood Warning Systems (AFWS)
- Short-Term Severe Weather Forecasting
- Microsensors for Marine Chemical Measurements
- Identification and Quantification of Reactive Gaseous Mercury Species in the Atmosphere
- Photon Counting Detector for 0.9- to 2-Micron Wavelength Range
- Compact Multibeam Echo Sounder (MBES) for Autonomous Underwater Vehicles (AUVs)
- Development of a Measurement Technique for Formaldehyde and Hydrogen Peroxide that can be Operated Aboard Aircraft
- Space Weather Industry
- Continuous Real-Time Boundary-Layer Wind Vector Profiles in Hurricanes
- Airborne Radar Sensor for Measurement of Ocean Wave Directional Spectra in Hurricanes

Commerce and Transportation

- Development of a Multipath Mitigation Global Positioning System (GPS) Antenna for Geodetic Applications
- High Resolution Surface Current Mapping in Harbors
- Multibeam Sonar System for AUV Applications
- Real Time Position Determination for Underwater Vehicles
- Anti-Fouling for Bio-optical Sensors and Solar Panels

NIST General Topics

Advanced Biological and Chemical Sensing Technologies

Analytical Methods

Condition-Based Maintenance

Healthcare and Medical Physics

Homeland and Security

Information Technology

Intelligent Control

Manufacturing Systems Integration



Federal Technology Funding Guide 2006

Microelectronics Manufacturing
Microfabrication and Micromachining
Optics and Optical Technology
Radiation Physics
Technologies to Enhance Fire Safety
X-ray System Technologies

Federal Technology Funding Guide

2006

SBIR – NOAA GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$75,000.
- * Phase II up to \$300,000.

Principal Investigator Criteria

The Primary employment of the Principal Investigator (PI) must be with the small business firm at the time of award. More than half of the Principal Investigator's time must be spent with the small business for the period covered by the contract. Primary employment with a small business precludes full-time employment with another organization.

Review Process

All proposals will be evaluated on a competitive basis. Each proposal will be screened by DOC staff to ensure that it meets the administrative requirements of the solicitation. Proposals that meet these requirements will be peer reviewed, undergo competition within each laboratory, and may also undergo a third round of competition across the agency. *Note: proposals that do not satisfy all criteria will be returned without peer review and cannot be resubmitted under the same solicitation.*

Evaluation Criteria

Phase I proposals will be rated by NOAA and/or external scientists or engineers with equal consideration given to the following criteria, except for item (1), which will receive twice the value of any other items:

1. The scientific and technical merit of the Phase I research plan and its relevance to the objectives, with special emphasis on its innovativeness and originality.
2. Importance of the problem or opportunity and anticipated benefits of the proposed research to DOC, and the commercial potential, if successful.
3. How well do the research objectives, if achieved, establish the feasibility of the proposed concept and justify a Phase II effort.

4. Qualifications of the Principal Investigator(s), other key staff, and consultants, and the probable adequacy of available or obtainable instrumentation and facilities.

Final award decisions will be made by NOAA based upon ratings assigned by reviewers and consideration of additional factors, including possible duplication of other research, the importance of the proposed research as it relates to NOAA needs, and the availability of funding.

Formal Evaluation

After final award decisions have been announced, the technical evaluations of a proposal will be provided to the proposer only upon written request and only for a period of 90 days. The identity of the reviewers will not be disclosed.

Submission of Proposals

DOC usually releases its SBIR solicitation in October, with proposals due in January (check current schedule). Formal notification of awarded proposals will be made in June.

Six copies of the proposal should be sent to the following address:

ATTN: SBIR Proposals
U.S. Department of Commerce, NOAA
Contract Administration Branch, Code OFA66
1305 East-West Highway, SSMC4
Silver Spring, MD 20910-3281
Telephone: (301) 713-0838

To Obtain Solicitations:

An electronic copy of the solicitation is available at the NOAA SBIR website.

<http://www.ofa.noaa.gov/%7Eamd/sbirs/sbir.pdf>

Federal Technology Funding Guide

2006

SBIR – NIST GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$75,000.
- * Phase II up to \$300,000.

Principal Investigator Criteria

The Primary employment of the Principal Investigator (PI) must be with the small business firm at the time of award. More than half of the Principal Investigator's time must be spent with the small business for the period covered by the contract. Primary employment with a small business precludes full-time employment with another organization.

Review Process

All proposals will be evaluated on a competitive basis. Each proposal will be screened by DOC staff to ensure that it meets the administrative requirements of the solicitation. Proposals that meet these requirements will be peer reviewed, undergo competition within each laboratory, and may also undergo a third round of competition across the agency. *Note: proposals that do not satisfy all criteria will be returned without peer review and cannot be resubmitted under the same solicitation.*

Evaluation Criteria

Phase I proposals will be rated by NIST scientists according to the following criteria and their corresponding weights:

1. The scientific and technical merit of the proposed research. (25 points)
2. Innovation, originality, and feasibility of the proposed research. (25 points)
3. Relevance and responsiveness of the proposed research to the subtopic to which it is addressed. (25 points)

4. Quality and/or adequacy of facilities, equipment, personnel described in the proposal. (15 points)
5. Quality of the proposal with respect to potential commercialization and/or Federal Procurements of the products and/or services sought by the subtopic. (10 points)

Final award decisions will be made by NIST based upon ratings assigned by reviewers and consideration of additional factors, including possible duplication of other research, the importance of the proposed research as it relates to NIST needs, and the availability of funding.

Formal Evaluation

After final award decisions have been announced, the technical evaluations of a proposal will be provided to the proposer only upon written request and only for a period of 90 days. The identity of the reviewers will not be disclosed.

Submission of Proposals

DOC usually releases its SBIR solicitation in October, with proposals due in January (check current schedule). Formal notification of awarded proposals will be made in June.

Copies of the proposal should be sent to the following address, preferably via a courier service such as FedEx or UPS:

National Institute of Standards and Technology
Acquisitions Management Division
Attn: Lisa Wells, NIST-05-SBIR
100 Bureau Drive STOP 1640
Building 301, Room B129
Gaithersburg, MD 20899-1640

To Obtain Solicitations:

Solicitations are available in electronic format only. Please use the following link:
<http://www.nist.gov/sbir>

Federal Technology Funding Guide

2006

Department of Defense

The Department of Defense SBIR and STTR programs fund \$1 billion each year in early stage R&D projects undertaken by small technology companies — projects that serve DoD needs and have commercial applications. The following tables break down the funding by DoD components and phases of research.

Fiscal Year	DoD Component	SBIR Budget	# Topics	# Ph I proposals	# Ph I awards	# Ph II awards
FY05	Army	233,836,000	245	3731	705	123
	Navy	253,692,000	163	2663	466	290
	Air Force	317,883,800	249	3256	608	339
	DARPA	67,298,000	28	490	74	80
	DTRA	6,143,000	14	162	40	4
	MDA	124,013,325	69	1509	240	102
	SOCOM	12,926,000	11	199	25	14
	CBD	5,860,000	23	239	21	7
	OSD	51,990,000	68	1,100	163	38
	NGA	690,260	1	31	21	1
	All DoD	1,074,332,385	871	13,480	2,344	998

<http://www.dodsbir.net/annualreport/annrpt.html>

Fiscal Year	DoD Component	STTR Budget	# Topics	# Ph I proposals	# Ph I awards	# Ph II awards
FY05	Army	28,060,000	32	400	48	26
	Navy	30,443,000	33	432	96	33
	Air Force	38,140,056	27	376	106	49
	DARPA	8,076,000	9	109	24	8
	MDA	14,883,000	21	232	30	16
	OSD	6,241,000	5	51	20	0
	All DoD	125,843,056	127	1600	324	132

<http://www.dodsbir.net/annualreport/sttrtrnpr.htm>

Federal Technology Funding Guide

2006

SBIR – DEPARTMENT OF DEFENSE GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$100,000.
- * Phase II up to \$750,000.

Principal Investigator Criteria

Primary employment of the Principal Investigator (PI) must be with the small business firm at the time of award and during conduct of the proposed effort. Primary employment means more than one-half of the principal investigator's time is spent with the small business. Primary employment with a small business concern precludes fulltime employment at another organization.

Review Process

Phase I proposals will be evaluated on a competitive basis and will be considered to be binding for six (6) months from the date of closing of this solicitation unless the offeror states otherwise.

Proposals meeting stated solicitation requirements will be evaluated by scientists or engineers knowledgeable in the topic area. Proposals will be evaluated first on their relevance to the chosen topic. A proposal that meets the goals of a solicitation topic but does not use the exact approach specified in the topic will be considered relevant. (Prospective proposers should contact the topic author to determine whether submission of such a proposal would be useful.)

Proposals found to be relevant will then be evaluated using the selected criteria. Final decisions will be made by the DoD Component based upon these criteria and consideration of other factors including possible duplication of other work, and program balance. A DoD Component may elect to fund several or none of the proposed approaches to the same topic. In the evaluation and handling of proposals, every effort will be made to protect the confidentiality of the proposal and any evaluations. There is no commitment by the DoD Components to make any awards on any topic, to make a specific number of awards or to be responsible for any monies expended by the proposer before award of a contract.

Evaluation Criteria

Proposals will be evaluated whether they offer the best value to the government and the nation using the following factors.

1. The soundness, technical merit, and innovation of the proposed approach and its incremental progress toward topic or subtopic solution.
2. The qualifications of the proposed principal/key investigators, supporting staff, and consultants. Qualifications include not only the ability to perform the research and development but also the ability to commercialize the results.
3. The potential for commercial (government or private sector) application and the benefits expected to accrue from this commercialization.

Where technical evaluations are essentially equal in merit, cost to the government will be considered in determining the successful offeror.

Technical reviewers will base their conclusions only on information contained in the proposal. It cannot be assumed that reviewers are acquainted with the firm or key individuals or any referenced experiments. Relevant supporting data such as journal articles, literature, including government publications, etc., should be contained or referenced in the proposal.

Formal Evaluation

Upon written request within 30 days after final award decisions have been announced, a debriefing will be provided to the unsuccessful offerors on their proposals.

Participating Military Components

- * Army
- * Navy
- * Air Force
- * Defense Advanced Research Projects Agency (DARPA)
- * Defense Threat Reduction Agency (DTRA)
- * National Geospatial Intelligence Agency (NGA)
- * Special Operations Command (SOCOM)
- * Missile Defense Agency (MDA)
- * Chemical and Biological Defense

Submission of Proposals

Federal Technology Funding Guide 2006

DoD typically accepts Phase I proposals twice during the fiscal year. The first solicitation is usually released in October with proposals due mid-January (check current schedule). The second solicitation is usually released in May with proposals due in August.

All SBIR proposals must be prepared and submitted electronically through the DoD SBIR/STTR electronic submission website
<http://www.dodsbir.net/submission/>

To Obtain Solicitations Contact:

Solicitations are no longer available in paper format. Please check the following website for solicitations and other program announcements.

<http://www.acq.osd.mil/sadbu/sbir/solicitations/index.htm>

Federal Technology Funding Guide

2006

Department of Education

	2000	2001	2002	2003	2004
Number of Phase I topics solicited	14	11	11	7	6
Phase I Proposals:					
Received	160	278	387	172	437
Awarded	50	39	56	16	46
Percent Awarded	31.3	14	14.5	9	11
Phase II Proposals:					
Received	33	48	36	68	7
Awarded	14	16	12	17	7
Percent Awarded	42.4	33.3	33.3	25	100
Obligations (in \$ millions):					
Total	5.9	6.8	8.7	7.8	8.9
Phase I	2.5	2.3	4.2	1.2	4.2
Phase II	3.4	4.4	4.5	6.6	4.7
Total obligations as a percent of total extramural R&D budget	2.5	2.6	3.3	2.6	3.1

<http://www.ed.gov/programs/sbir/history.html>

Federal Technology Funding Guide

2006

SBIR – DEPARTMENT OF EDUCATION GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$100,000.
- * Phase II up to \$750,000.

Principal Investigator Criteria

The primary employment of the Principal Investigator (PI) must be with the small business firm at the time of award and during the conduct of the proposed research. More than one-half of the PI's working time must be spent with the small business firm during the period of performance.

Review Process

Phase I proposals will be judged on a competitive basis in a two-stage process. All proposals will be initially screened to ensure that they meet the stated proposal requirements as outlined in the solicitation. Experts in the topic areas will then evaluate proposals meeting those requirements. Reviewers will include people outside the federal government. Each application will be judged on its own merit.

Evaluation Criteria

DoEd will select for award those proposals offering the best value to the government according to the criteria set forth below, on a maximum 100 points scale:

1. **Significance** (25 points)
2. **Quality of the Product Design** (50 points)
3. **Quality of Project Personnel** (15 points)
4. **Adequacy of Project Resources** (10 points)

Awards will be made by the Department of Education based upon these criteria and availability of funds.

Formal Evaluation

After final award decisions are made, the Principal Investigator will receive the technical evaluations.

Applicants normally receive their evaluations within six to eight weeks following the announcement of the awards. The identity of the reviewers will not be disclosed.

Priorities

For FY 2004, the Department of Education has selected two priorities for the SBIR program. While it is likely that the focus will be different in FY 2005 solicitations, they serve as guidance for the type of topics covered under the DoEd SBIR program.

The first priority concerns the development of effective **business consulting services** that can better serve the education community at both the local and state levels. The second consists of the development of **empirically derived products** in the areas of reading or mathematics or science or character/pro-social development from pre-kindergarten through post-secondary, including products that support teachers and administrators as well as products that are used directly by students.

Successful applicants will be expected to collect some empirical evidence as to the effectiveness of the service or product they are proposing or, at a minimum, incorporate a plan for measuring its efficacy and usefulness.

Services

This priority supports research to develop effective business consulting *services* that can better serve the education community at both the local and state levels. The Institute of Education Sciences SBIR Program invites proposals that seek to develop a plan or a business model for the provision of such services. Examples of relevant services include, but are not limited to, the following:

1. **Education Data Management**– There is a need to provide schools, districts and States with more effective data management tools that support their efforts to meet the standards set forth in the *No Child Left Behind Act* of 2001. An example would be an application or service designed to provide a particular school, a group of schools, or a local district with test results that have been condensed into readable and easily interpretable language for teacher and principal use. This service might also include the development of classroom profiles depicting students'

Federal Technology Funding Guide

2006

performance and providing recommendations on courses of action to be taken in order to enhance student achievement.

2. **Evidence-Driven Consulting Services** – Superintendents, principals and teachers could benefit from technical assistance in applying empirically based studies about a particular content area (e.g., reading, mathematics, science) to the local context. In addition, schools that are having trouble meeting the requirements of NCLB could benefit from consulting services designed to provide them with a menu of options and strategies they could implement in order to enhance student learning and achievement.
3. **Financial Data Services at the School, District or State Level** – These services might include the further development of existing financial software and/or the evaluation of existing commercial software to determine which product best meets the need of the school, district or state systems. Applicants are encouraged to consult the background section of the Education Finance, Leadership, and Management program announcement for a more detailed description of the limitations the Institute sees in existing financial software.
4. **Technology Consulting Services** – These services might focus on assisting schools with the selection and implementation of relevant educational technologies and most importantly, on training teachers and other relevant school personnel on how to make most effective use of these new technologies.

Products

This priority supports the development of empirically derived educational products in the areas of reading or mathematics or science or character/pro-social

development at the pre-kindergarten through post-secondary levels, including products that support teachers and administrators as well as products that are used directly by students. Applicants are encouraged to consult the background section of the individual announcements for other Institute grant competitions in the topic areas listed above to better understand the thinking behind this priority.

Products may include, but are not limited to, the following:

1. Software Applications
2. Supplemental Educational Materials (i.e., workbooks, readers and professional development materials)
3. Assessment

Submission of Proposals

DoEd usually releases its SBIR solicitation in early spring with proposals due in two months. Please check the current schedule for exact FY 2005 dates. Awards are announced in July.

Proposals must be submitted electronically via this website: <https://ies.constellagroup.com/> Detailed instructions are available once an account is created.

Please use the following link to download application forms:

<http://www.ed.gov/fund/grant/apply/appforms/appforms.html>

To Obtain Solicitations:

Solicitations are available electronically via <http://www.ed.gov/programs/sbir/applicant.html>

Federal Technology Funding Guide

2006

Department of Energy

Approximately \$36 Million is expected to be available for new Phase I awards under this announcement. DOE anticipates making approximately 360 awards under this announcement. SBIR and STTR awards are subject to the availability of funds and this funding opportunity announcement does not obligate DOE to make any awards under either Phase I or Phase II. The average award size for this program in FY 2006 was \$ 99,532. DOE expects the average award size to be similar under this announcement.

Results from 1999 – 2004					
	Grant Applications	Candidates for Funding	Percentage (%)	Awards	Percent Funded (%)
Phase I					
2004	1375	389*	28	300*	22
2003	1227	338*	28	236*	19
2002	971	301*	31	246*	25
2001	901	317*	36	234*	26
2000	1086	325*	30	221*	20
1999	1135	306	27	203	18
Phase II					
2004	207*	138*	66	121*	58
2003	223*	129*	58	114*	51
2002	206*	129*	63	117*	57
2001	178	103	58	97	54
2000	184	101	55	91	49
1999	179	115	64	84	47

http://sbir.er.doe.gov/sbir/Statistics/statistics_main.htm

* Includes both SBIR and STTR

Federal Technology Funding Guide

2006

SBIR – DEPARTMENT OF ENERGY GENERAL INFORMATION

Dollar Amount to be Awarded

* Phase I up to \$100,000.

* Phase II up to \$750,000.

Principal Investigator Criteria

The Principal Investigator's (PI) primary employment must be with the small business at the time of award and during the conduct of the research. Primary employment means that more than one-half of the PI's time, but no less than 20 hours (average) per week, is spent in the employment of the small business during the conduct of the project. Primary employment with the small business precludes full-time employment with another organization. In addition, the PI is expected to devote a considerable part of his or her time to the project and in no case less than 5 hours (average) per week for the duration of the project. To ensure appropriate technical guidance of the project, only one PI will be accepted per project. Changes in the PI is strongly discouraged.

Review Process

Phase I grant applications will be judged on a competitive basis in several stages. All will be screened initially by DOE to ensure that they meet the stated requirements, are responsive to the topic and subtopic entered on the cover page, contain sufficient information for meaningful technical review, and do not duplicate other previous or current work. The grant applications considered candidates for funding would be technically evaluated by scientists or engineers. They will be judged competitively against the criteria set forth below on its own merits. Final decisions will be made based on the criteria and factors such as program balance and need.

Evaluation Criteria

1. **Strength of the scientific/technical quality** as evidenced by (1) the innovativeness of the idea and the approach, (2) the significance of the scientific or technical challenge, and (3) the thoroughness of the presentation.

2. **Ability to carry out the project in a cost effective manner** as evidenced by (1) the qualifications of the Principal Investigator, other key staff, and consultants, if any, and the level of adequacy of equipment and facilities; (2) the soundness and level of adequacy of the work plan to show progress toward proving the feasibility of the concept; and (3) the degree to which the DOE investment in the project would be justified by the level of proposed research effort.
3. **Impact** as evidenced by (1) the significance of the technical and/or economic benefits of the proposed work, if successful, (2) the likelihood that the proposed work could lead to a marketable product or process, and (3) the likelihood that the project could attract further development funding after the SBIR project ends.

The selection of grant applications for awards will be completed approximately four months after the closing date of the solicitation. Grant awards will be completed approximately two months after the solicitation closes.

Formal Evaluation

If a written request for a debriefing is received by the SBIR Program Manager within 30 days after the announcement of the final selections, the small business concern will be provided with information pertinent to DOE's evaluation of the grant application. Neither the identity of the reviewers nor the verbatim comments will be disclosed.

DOE SBIR Research Topic Areas

Advanced Scientific and Computational Research
Basic Energy Sciences
Biological and Environmental Research
Energy Efficiency and Renewable Energy
Environmental Management
Fossil Energy
Fusion Energy Sciences
High Energy and Nuclear Physics
Nonproliferation and National Security
Nuclear Energy

Each year about 45 topics are allocated among these technical areas in proportion to their contribution to the budget. DOE plans to select for award those grant

Federal Technology Funding Guide

2006

applications of the highest overall merit within their technical subject area.

Submission of Proposals

Applications must be submitted through Grants.gov to be considered for award. You cannot submit an application through Grants.gov unless you are registered. Please read the registration requirements carefully and start the process immediately. Remember you have to update your Central Contract

Registry (CCR) registration annually. If you have any questions about your registration, you should contact the Grants.gov Helpdesk at 1-800-518-4726 to verify that you are still registered in Grants.gov.

To Obtain Solicitations:

Application forms and instructions are available at Grants.gov.

Federal Technology Funding Guide

2006

Department of Health & Human Services

The SBIR and STTR programs for the Department of Health & Human Services are administered through the National Institute of Health (NIH). In FY 2004, the NIH awarded 1,809 SBIR awards and 264 STTR awards for a total of more than \$550 million. In FY 2003, the NIH awarded more than \$500 million to 1,924 SBIR projects and 154 STTR projects.¹ The historic data include both Phase I and Phase II award winners.

Some of the Participating Sub-Organizations of the Agency

National Institutes of Health (NIH)

- National Institute on Alcohol Abuse and Alcoholism (NIAAA)
- National Cancer Institute (NCI)
- National Institute on Drug Abuse (NIDA)
- National Institute of Mental Health (NIMH)
- National Heart, Lung, and Blood Institute (NHLBI)

Centers for Disease Control and Prevention (CDC)

- National Center for HIV, STD, and TB Prevention (NCHSTP)
- National Center for Environmental Health (NCEH)
- National Immunization Program (NIP)
- National Center for Infectious Diseases (NCID)
- National Center on Birth Defects and Developmental Disabilities (NCBDDD)

Food and Drug Administration (FDA)

- Center for Biological Evaluation and Research (CBER)
- Center for Drug Evaluation and Research (CDER)
- Center for Food Safety and Applied Nutrition (CFSAN)
- Center for Devices and Radiological Health (CDRH)
- Center for Veterinary Medicine (CVM)
- Office of Orphan Products Development

¹ <http://grants.nih.gov/grants/funding/sbir.htm#data>

Federal Technology Funding Guide

2006

SBIR – DEPARTMENT OF HEALTH & HUMAN SERVICES GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$100,000.
- * Phase II up to \$750,000.

Principal Investigator Criteria

Primary employment of the Principal Investigator (PI) must be with the small business at the time of award and during the conduct of the proposed project. Primary employment with a small business precludes full-time employment at another organization.

Review Process

Grant applications are subjected to a review process involving two sequential steps. In the first step, proposals will be screened to determine their compliance with the administrative requirements of the solicitation and their applicability to the topic. Then a peer review panel will evaluate proposals passing the initial screening for technical merit and scientific acceptability.

Proposals will be peer reviewed by panels of scientists selected for their competence in relevant scientific and technical fields. The panel provides a rating, makes specific recommendations related to the scope, direction and/or conduct of the proposed research, and may provide other suggestions for those proposals recommended for award. The institute program staff of the awarding component will conduct a second level review. *Funding for any/all acceptable proposals is not guaranteed.*

Evaluation Criteria

In considering the scientific and technical merit of each application, the following criteria will be used with a total weighting of 100:

1. The soundness and technical merit of the proposed approach and identification of clear measurable goals (milestones) to be achieved during Phase I. (40)
2. The qualifications of the proposed Principal Investigator, support staff, and consultants. (20)
3. The potential of the proposed research for technological innovation. (15)
4. The potential of the proposed research for commercial application. (15)
5. The adequacy and suitability of the facilities and research environment. (10)

Awarding Components

For the first solicitation period of FY 2005, PHS has approx. 47-70 Phase I awards for NIH and approx. 23 Phase I awards for CDC.

Submission of Proposals

Applications must be submitted electronically through Grants.gov (<http://www.grants.gov>) using the SF424 Research and Related (R&R) forms and the SF424 (R&R) SBIR/STTR Application Guide. APPLICATIONS MAY NOT BE SUBMITTED IN PAPER FORMAT.

A registration process is necessary before submission and applicants are highly encouraged to start the process at least four weeks prior to the grant submission date.

To Obtain a Solicitation:

Applicants must download the SF424 (R&R) application forms and the SF424 (R&R) SBIR/STTR Application Guide for this FOA through Grants.gov/Apply.

Federal Technology Funding Guide

2006

Department of Homeland Security

In FY04.1, the Department of Homeland Security granted 66 Phase I projects with the total award amount of more than \$6 million. It plans to award more than 20 Phase II projects with \$17 million in funding. (<http://www.hsarpasbir.com/SBIRAWards41.asp?sf=AwardAmount>)

DHS S&T Topics - DHS Small Business Fiscal Year 06 Publication 2

- System for designing and evaluating chemical or biological agent sensor networks
- Mobile peripheral device for biological analysis
- Advanced unattended ground sensor (UGS) technologies
- Next generation credentialing system technologies
- 3-D visualization system to show first responders and assets within building structures in urban areas for situational awareness
- Automated scenarios/script builder for simulation based training systems

SBIR – DEPARTMENT OF HOMELAND SECURITY GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$100,000.
- * Phase II up to \$750,000.

Principal Investigator Criteria

The primary employment of the Principal Investigator (PI) must be with the small business firm at the time of award and during the conduct of the proposed research. More than one-half of the PI's working time must be spent with the small business firm during the period of performance.

Review Process

Phase I proposals will be evaluated primarily by government personnel. They will determine if the proposals are appropriate and relevant to the topic area and if the suggested research is unique. Each proposal is reviewed based on its own individual merit rather than against other proposals.

Evaluation Criteria

SBIR proposals will be evaluated primarily by government personnel and awarded competitively based on the following criteria:

1. Soundness, technical merit, and innovation of the proposed approach and its progress toward a solution.
2. Qualifications of the proposed principal/key investigator, supporting staff and consultants.
3. Potential for commercial (private sector or government) application.

Proposals are scored on a 1-20 scale, with 20 receive the highest priority (recommended for funding). In case of a tie where projects have equal technical merit, the tiebreaker will be cost to the government and length of schedule.

Formal Evaluation

After final award decisions have been announced, the technical evaluation of the proposal may be provided to the Principal Investigator upon written request. The identity of the reviewer(s) will not be disclosed.

Major Topic Areas

Chemical
Biological

Federal Technology Funding Guide

2006

Radiological
Nuclear
High Explosives
Cyber
Emergency Preparedness and Response
Border and Transportation
Information Analysis and Infrastructure Protection
(IAIP)

Submission of Proposals

DHS releases its SBIR solicitations two times per year with a 30-day pre-solicitation period. Six topics are included in each solicitation. The release dates are usually in May and November, with proposals due a

month after. Winning proposals will be chosen within six months of the solicitation dates.

All of the solicitation proposals are processed electronically through the Internet. **Only electronic submissions are considered for award.** Firms may submit their proposals through the SBIR website, and they will be notified of the proposal receipts and the award selections electronically as well.

To Obtain Solicitations Contact:

Solicitations can be found via the Department of Homeland Security's homepage at <http://www.hsarpasbir.com/> under the link "SBIR Solicitations".

Department of Transportation

In 2005, 7 Phase I awards were made under the DOT SBIR program and 4 awards under Phase II. The awards totaled an amount of over \$3.2 million.

The Volpe Center directs the Department's SBIR Program due to its extensive background in innovative programs such as technology transfer, cooperative R&D agreements, outreach projects involving a cross-section of the transportation community, and technical assistance to state and local governments, as well as private organizations. The SBIR Program Office, located at the Volpe Center, directs all activities required under the SBIR law and executes the policy established by the Small Business Administration.

2006 DOT SBIR Research Topic Titles

Federal Highway Administration
Federal Railroad Administration
Federal Motor Carrier Safety Administration
Pipeline and Hazardous Materials Safety
Administration

SBIR – DEPARTMENT OF TRANSPORTATION GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$100,000.
- * Phase II up to \$750,000.

Principal Investigator Criteria

The primary employment of the Principal Investigator (PI) must be with the small business firm at the time of award and during the conduct of the proposal research unless otherwise approved by the contracting officer. Primary employment means that more than one half of the principal investigator's time is spent with the small business.

Review Process

A Proposal Review Panel, chaired by the Department's SBIR Program Director and comprised of senior management officials representing the Department's Operating Administrations and the Office of the Secretary, will arrange for review and evaluation by professionals, in their respective organizations, of all Phase I proposals that meet the requirements of the solicitation. The Proposal Review Panel will review the technical evaluations by the specialists and recommend to the Program Director the proposals for award. The Program Director will announce the award.

Evaluation Criteria

The evaluation process involves the following factors:

1. Scientific and technical merit and the feasibility of the proposal's commercial potential, as evidenced by:
 - a) Record of successful commercialization of SBIR or other research;
 - b) Existence of second phase funding commitments from private sector or non-SBIR funding sources;

- c) Existence of third phase, follow-on commitments and;
 - d) Presence of other indicators of the commercial potential of the idea.
2. The adequacy of the work plan and approach to achieve specified work tasks and stated objectives of the proposed effort within budgetary constraints and on a timely schedule.
 3. Qualifications of the proposed principal/key investigator(s) including demonstrated expertise in a discipline related to the particular research or R&D topic that is proposed for investigation.
 4. Adequacy of supporting staff and facilities, equipment and data for the successful completion of the proposed research or research and development.

Formal Evaluation

After final awards have been announced, a debriefing of the overall comments on the proposal may be provided to the proposer upon request of the proposer. The identity of the evaluators will not be disclosed.

Submission of Proposals

Hard Copy Requirements:

An original and four copies of each proposal submitted under the DOT SBIR Program shall be sent to:

Joseph Henebury
DOT SBIR Program Director, DTS-22
U.S. DOT/RITA/VNTSC
55 Broadway
Cambridge, MA 02142-1093
Telephone: (617) 494-2051

Proposals must be postmarked **NO LATER** than the due date, which is usually in May. Proposals delivered to the DOT SBIR Program Office by any means other than the U.S. Postal Service, must be received at the above address on or before the due date.

Federal Technology Funding Guide

2006

Electronic Submission Requirements:

Each proposal shall not exceed 25 pages. All proposals must be a PDF file attached to e-mail. No duplicate proposals shall be sent by any other means. Proposals must be sent via e-mail to: henebury@volpe.dot.gov.

You must submit a completed and signed hardcopy of Appendices A, B, and C postmarked to: Joseph Henebury, DOT SBIR Program Director, at above address.

The proposal file shall contain eight (8) characters- the first three shall be the topic number you are proposing to (i.e., FH3), and the remaining five characters shall be a unique abbreviation of your company's name.

Your proposal will have the same protection/security as DOT e-mail. It will be available to only the team of DOT engineers and/or scientists responsible for evaluating your proposal.

If you intend to submit your proposal electronically you must register at the website: <http://www.volpe.dot.gov/sbir>

Environmental Protection Agency

In 2003, 27 Phase I awards were granted under the EPA SBIR program.¹ The Phase I awards totaled over \$2.5 million. In 2002, 35 Phase I and 2 Phase II awards were granted.² The Phase I awards totaled \$2.4 million, and Phase II awards totaled half a million. Of the 35 Phase I recipients, five firms were from California.

FY 2006 Phase I Solicitation Topics

GREAT LAKES ENVIRONMENTAL PROBLEMS (EPA REGION 5)

- Improving the Great Lakes
- Control of Air Pollution
- Monitoring and Remote Sensing
- Green Buildings

ENVIRONMENTAL PROBLEMS IN AMERICA'S HEARTLAND (EPA REGION 7)

- Mining and Mine Waste Management
- Lead Paint Detection and Removal
- Agriculture and Rural Community Improvement
- Management of Animal Feeding Operations

DRINKING WATER AND WASTEWATER MANAGEMENT (EPA Office of Water)

- Drinking Water Treatment and Monitoring
- Pollution Indicators for Beaches and Recreational Waters
- Water and Wastewater Management

CRITICAL EPA RESEARCH TOPICS

- Innovation in Manufacturing for Environmental Protection
- Nanotechnology
- Engine and Vehicle Emissions Reduction
- Solid and Hazardous Waste
- Homeland Security

¹ EPA SBIR Awards FY 03 http://es.epa.gov/ncer/sbir/awards/2003_full.html

² EPA SBIR Awards FY 1989-FY 2003 <http://es.epa.gov/ncer/sbir/awards/sbirtbl1.html>

SBIR – ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$70,000.
- * Phase II up to \$225,000.

Principal Investigator Criteria

The primary employment of the Principal Investigator (PI) must be with the small business firm at the time of the award and during the conduct of the proposed research. PIs who appear to be employed by a university must submit a letter from the university stating that the PI, if awarded an SBIR grant/contract, will become a less than half-time employee of the university.

Review Process

All proposals will be evaluated and judged on a competitive basis by peer reviewers from outside of EPA. Proposals will initially be screened to determine responsiveness. Proposals passing the initial screening will be reviewed for technical merit by external peer panels of technical experts. Each proposal will be judged based on its own merit.

Evaluation Criteria

All criteria are of equal importance.

1. The scientific and technical significance of the proposed technology and its appropriateness to the research topic. Quality and soundness of the research plan to establish the technical and commercial feasibility of the concept.
2. The uniqueness/ingenuity of the proposed concept or application as technological innovation. Originality and innovativeness of the proposed research toward meeting customer needs and achieving commercialization of the technology.
3. Potential demonstration of performance/cost effectiveness and environmental benefits associated with the proposed research, including risk reduction potential.

4. Qualifications of the principal/key investigator, supporting staff and consultants. Time commitment of principal/key investigator, adequacy of equipment and facilities and proposed budget to accomplish the proposed research. Adequacy and quality of the Quality Assurance Narrative Statement.
5. Potential of the proposed concept for significant commercial application. Potential for the commercialization plan to produce an innovative product, process or device and to put it into commercial production and sales. Potential market and competition and other financial/business indicators of commercialization potential and the offeror's SBIR or other research commercialization record.

Submission of Proposals

The Environmental Protection Agency's (EPA) next Phase I Solicitation will open on March 22, 2007 and close on May 23, 2007.

Copies of the proposal should be sent to one of the following addresses:

U.S. Mail:

U.S. Environmental Protection Agency
Solicitation No. <insert no. here> - Regular SBIR
Phase I
Closing Date: May 25, 2004, at 12:00 p.m. (Noon)
Attn: Marsha Johnson, Regular SBIR Phase I
RTP Procurement Operations Division (D143-01)
Research Triangle Park, NC 27711

For hand-carriers and express services:

U.S. Environmental Protection Agency
Solicitation No. <insert no. here> - Regular SBIR
Phase I
Closing Date: May 25, 2004, at 12:00 p.m. (Noon)
Attn: Marsha Johnson, Regular SBIR Phase I
RTP Procurement Operations Division (D143-01)
4930 Page Road
Durham, NC 27703

To Obtain Solicitations Contact:

Federal Technology Funding Guide 2006

Solicitations are available online at

<http://epa.gov/ncet/sbir/>. To receive a fax copy of the solicitation, please call 1-800-490-9194.

National Aeronautics and Space Administration

In 2003, NASA received 2,696 SBIR and 179 STTR proposals. NASA selected 310 SBIR and 45 STTR research proposals for initial contract negotiations, with the former receiving up to \$70,000 and the latter up to \$100,000 in contract funding. Funding for the projects is estimated at nearly \$26 million.¹

Research Topics

The solicitations issued by NASA describe the agency's highest priority research needs in any given year. These needs are organized under a number of topic areas that are further broken into subtopics. *Proposals must be in response to a subtopic.* NASA's Mission Directorates conceive and manage the topics and subtopic content each year. The range of technologies is broad, and topics may vary in content from year to year.

Topics from the 2004 NASA SBIR Solicitation

Each of the following topics also has more subtopics, which are not listed for brevity purposes.

Aeronautics Mission Directorate

- Aviation Safety and Security
- Vehicle Systems
- Airspace Systems

Exploration Systems Mission Directorate

- Self-Sufficient Space Systems
- Space Utilities and Power
- Habitation, BioAstronautics and Extravehicular Activity
- Space Assembly, Inspection, and Maintenance
- Surface Exploration and Expeditions
- Space Transportation Information and Communication Systems Integration, Analysis, Concepts and Modeling
- Cross-Disciplinary Physical Sciences
- Fundamental Space Biology
- Biomedical and Human Support Research
- Partnerships and Market Driven Research
- Flight Payload Technologies and Outreach

Science Mission Directorate

¹ Brakaus, Michael. National Aeronautics and Space Administration. "2003 SBIR/STTR Phase I Press Release, 2004..."

Federal Technology Funding Guide 2006

Sun Earth Connection
Structure and Evolution of the Universe
Astronomical Search for Origins
Exploration of the Solar System
Mars Exploration
Instruments for Earth Science Measurements
Platform Technologies for Earth Science
Advanced Information Systems Technology for Earth Science
Applying Earth Science Measurements

SBIR – NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GENERAL INFORMATION

Dollar Amount to be Awarded

- * Phase I up to \$70,000.
- * Phase II up to \$600,000.

Principal Investigator Criteria

The Principal Investigator (PI) is presumed to be key to the success of an SBIR project. The PI must have the technical competence and authority to plan and guide the proposed research and must make a substantial contribution to the project as indicated by the time and effort identified for the PI in the proposal. The primary employment of the PI must be with the small business at the time of the contract award and during the conduct of the research. Primary employment with the small business requires a minimum of 20 hours per week (average), and it precludes full-time employment with any other organization or full-time student status in an academic institution. A person employed in any capacity by an academic institution can be a PI if, during SBIR contract periods, the PI limits obligatory activities of all types with that institution to less than half the number of hours per week required by the PI under normal full-time employment agreement with the institution.

Review Process

All proposals will be evaluated and judged on a competitive basis. Proposals will initially be screened to determine responsiveness. Proposals passing the initial screening will be reviewed for technical merit by NASA scientists and engineers and by qualified experts outside of NASA (including industry, academia, and other government agencies) as required to determine or verify the merit of a proposal. Each proposal will be judged on its own merit.

Evaluation Criteria

NASA will give primary consideration to the scientific and technical merit and feasibility of the proposal and its benefit to NASA.

1. **Scientific/Technical Merit and Feasibility**
The proposed R/R&D effort will be evaluated on whether it offers a clearly innovative and feasible technical approach to the NASA problem area described in the subtopic. Specific objectives, approaches and plans for developing and verifying the innovation must demonstrate a clear understanding of the problem and the current state-of-the-art. The degree of understanding and significance of the risks involved in the proposed innovation must be presented. **(Technical merit - 50%)**
2. **Experience, Qualifications and Facilities**
The technical capabilities and experience of the principal investigator or project manager, key personnel, staff, consultants and subcontractors, if any, are evaluated for consistency with the research effort and their degree of commitment and availability. The necessary instrumentation or facilities required must be shown to be adequate and any reliance on external sources, such as Government Furnished Equipment or Facilities, addressed. **(Technical merit - 25%)**
3. **Effectiveness of the Proposed Work Plan**
The work plan will be reviewed for its comprehensiveness, effective use of available resources, cost management, proposed schedule for meeting the Phase-I objectives and the methods planned to achieve each objective or task. **(Technical merit - 25%)**
4. **Commercial Merit and Feasibility**
The proposal will be evaluated for any potential commercial applications in the private sector or with the Federal Government. **(Commercial merit)**

For Phase I evaluation, technical merit carries more weight than commercial merit.

Formal Evaluation Debriefing

After final Phase I and II selection decisions have been announced, a critique for an unsuccessful offeror may be provided to the offeror's corporate official or their designee via e-mail. Telephone requests will not be accepted. Debriefings are not opportunities to reopen selection decisions. They are intended to acquaint the offeror with perceived

Federal Technology Funding Guide

2006

strengths/weaknesses of the proposal and perhaps to provide suggestions for constructive future action by the offeror.

Major Topic Areas:

Aero-space Technology
Human Exploration and Development of Space
Earth Science
Space Science
Cross Enterprise

Submission of Proposals

NASA usually releases its SBIR solicitation in June with proposals due in August (check current schedule).

Paper submissions are no longer accepted. Small businesses must first register with NASA in order to submit electronic proposals. More detailed instructions are available in the solicitation and on the NASA website.

To Obtain Solicitations:

Solicitations can be obtained via NASA's website at <http://sbir.gsfc.nasa.gov/SBIR/SBIR.html>

National Science Foundation

Under this solicitation, SBIR Phase I proposals may be submitted for funding up to \$100,000; STTR Phase I proposals may be submitted for funding up to \$150,000. SBIR Phase I projects run for 6 months and STTR Phase I projects for 12 months. The program expects to make approximately 150 fixed amount awards (approximately 125 SBIR Phase I awards plus an additional 25 STTR Phase I awards). Anticipated funding amount is \$16,250,000 with approximately \$12,500,000 for SBIR Phase I and approximately \$3,750,000 for STTR Phase I (pending the availability of funds and quality of proposals). Award notification is typically four to six months from the proposal submission deadline date. All awards will have an effective date of July 1, 2007.

	FY 2002		FY 2003	
	SBIR	STTR	SBIR	STTR
Total Budget¹	\$79.6M	\$4.6M	\$86.0M	\$4.9M
# of Phase I Proposals Received	1472	97	2546	97
# of Phase II Proposals Received	148	18	213	18
# of Phase I Awards	271	19	444	20
# of Phase II Awards	58	9	94	10

NOTE: The current solicitation is available electronically at <http://www.eng.nsf.gov/sbir>. Please note, the “opening” and “closing” dates for submission of Phase I proposals are based on topics.

¹ Fantroy, Jonetta, Program Specialist, National Science Foundation

SBIR –NATIONAL SCIENCE FOUNDATION GENERAL INFORMATION

Dollar Amount to be Awarded

- Phase I up to \$100,000.
- Phase II up to \$500,000.

Principal Investigator Criteria

The primary employment of the Principal Investigator (PI) must be with the small business concern at the time of the award. A PI must spend a minimum of one calendar month of an SBIR Phase I project and a minimum of two calendar months on an STTR Phase I project. Employment releases and certifications of intent shall be required prior to award.

Review Process

Proposals will be technically and administratively screened to determine the responsiveness to the specific requirements of the solicitation. Proposals found to be responsive will be competitively evaluated in a process of external merit review by scientists, engineers, or educators knowledgeable in the appropriate field. Most reviewers are located in universities and government. Proposals will be handled on a confidential basis and care will be taken to avoid conflicts of interest.

Evaluation Criteria

In the merit review process, reviewers will consider the following criteria:

Intellectual Merit. What is the intellectual merit of the proposed activity? *This criterion addresses the overall quality of the proposed activity to advance science and engineering through research and education.*

- Is the proposed plan a sound approach for establishing technical and commercial feasibility?

- To what extent does the proposal suggest and explore unique or ingenious concepts or applications?
- How well qualified is the team (the Principal Investigator, other key staff, consultants, and subawardees) to conduct the proposed activity?
- Is there sufficient access to resources (materials and supplies, analytical services, equipment, facilities, etc.)?
- Does the proposal reflect state-of-the-art in the major research activities proposed? (Are advancements in state-of-the-art likely?)
- For Phase II proposals: As a result of Phase I, did the firm succeed in providing a solid foundation for the proposed Phase II activity?

Broader Impacts. What are the broader impacts of the proposed activity? *This criterion addresses the overall impact of the proposed activity.*

- What may be the commercial and societal benefits of the proposed activity?
- Does the proposal lead to enabling technologies (instrumentation, software, etc.) for further discoveries?
- Does the outcome of the proposed activity lead to a marketable product or process?
- Evaluate the competitive advantage of this technology vs. alternate technologies that can meet the same market needs.
- How well is the proposed activity positioned to attract further funding from non-SBIR sources once the SBIR project ends?
- Can the product or process developed in the project advance NSF's goals in research and education?
- Does the proposed activity broaden the participation of underrepresented groups (e.g. gender, ethnicity, disability, geography, etc.)?

Federal Technology Funding Guide

2006

- Has the proposing firm successfully commercialized SBIR/STTR supported technology where prior awards have been made?

In addition, the following factors are also considered during the evaluation process.

- Integration of research and education.
- Integrating diversity into NSF programs, projects, and activities.

Formal Evaluation

When an award or declination is made, the following are mailed to the PI: verbatim copies of reviews, excluding names of reviewers; summaries of review panel deliberations, if any; a description of the process by which the proposal was reviewed; and context of the decision.

Research Topic Areas

Information-Based Technologies
Biotechnology
Advanced Materials and Manufacturing
Electronics
Chemical Based Technologies

Submission of Proposals

Phase I applications have a deadline of December 4, 2006.

Proposals must be electronically submitted through the NSF's FastLane system. Detailed instruction is available at

<https://www.fastlane.nsf.gov/a1/newstan.htm>

To Obtain Solicitations:

Paper solicitations will not be distributed. To view an electronic copy, please visit the National Science Foundation website at <http://www.eng.nsf.gov/sbir/>

Federal Technology Funding Guide

2006

More Information on SBIR or STTR Programs

For more information, please contact

U.S. Small Business Administration
Office of Technology - Mail Code 6470
409 3rd Street, SW
Washington, DC 20416
Phone: (202) 205-6450
Fax: (202) 205-7754
Email: robert.connolly@sba.gov
<http://www.sbaonline.sba.gov/sbir/>

SBIR/STTR Contact Information

DEPARTMENT OF AGRICULTURE

*Cooperative State Research, Education
& Extension Service*
Stop 2243, Waterfront Centre, Ste 2312
1400 Independence Avenue SW
Washington, DC 20250-2243
Tel: 202-401-4002
Fax: 202-401-6070
Prgm Dir: Dr. Charles Cleland
CCleland@csrees.usda.gov
URL: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1128>

DEPARTMENT OF COMMERCE

*National Oceanic and Atmospheric
Administration*
SBIR Program Office
1335 East West Hwy, SSMC1, Station
106
Silver Spring, MD 20910-3284
Tel: 301-713-3565
Fax: 301-713-4100

Prgm Mgr: Joseph M. Bishop
joseph.bishop@noaa.gov
URL: <http://www.ofa.noaa.gov/~amd/sbirs/sbir.html>

*National Institute of Standards &
Technology*
Department of Commerce - NIST
100 Bureau Drive, Stop 2200
Gaithersburg, MD 20899-2200
Tel: 301-975-3085
Fax: 301-548-0624
Prgm Mgr: Brenda Lee Thomasson
Brenda.thomasson@nist.gov
URL: http://patapsco.nist.gov/ts_sbir/

DEPARTMENT OF DEFENSE

OSD/SADBU – SBIR/STTR

U.S. Department of Defense
1777 North Kent Street
Rosslyn Plaza North, Suite 9100
Arlington, VA 22209
Tel: 703-588-8616

Federal Technology Funding Guide

2006

Fax: 703-588-7561
Prgm Administrator: Jeff Bond
jeff.bond@osd.mil
URL: <http://www.acq.osd.mil/sadbu/sbir>

U.S. ARMY – SBIR
US Army RD&E Command
ATTN: AMSRD-ARO-WA-SBIR
6000 6th Street, Suite 100
Fort Belvoir, VA 22060-5608
Tel: 703-806-2085
Fax: 703-806-2046
Prgm Mgr: Susan Nichols
sbira@belvoir.army.mil
URL: <http://www.aro.army.mil/arowash/r/sbir/sbir.htm>

Ballistic Missile Defense Organization
MDA SB/SBIR
2110 Washington Boulevard
Suite 405
Arlington, VA 22204
Tel: 703-553-3408
Fax: 703-271-0674
Prgm Mgr: Frank Rucky
frank.rucky@mda.osd.mil
URL: <http://www.winbmdo.com/>

U.S. ARMY - STTR
Research & Technology Integration
Directorate
Army Research Office/Army Research
Laboratory
P.O. Box 12211
Research Triangle Park, NC 27709-2211
Tel: 919-549-4240
Fax: 919-549-4248
Prgm Mgr: Ellen G. Segan
seganeg@arl.aro.army.mil
URL: <http://www.aro.army.mil/arowash/r/sttr/sttr.htm>

U.S. Air Force



AFRL/XPTT
2275 D St, Bldg 16, Room #107
Wright-Patterson AFB, OH 45433-7226
Tel: 800-222-0336
Fax: 937-255-2329
Prgm Mgr: Stephen J. Guilfoos
E-mail to AFRL:
Stephen.guilfoos@wpafb.af.mil
URL:
http://www.afrl.af.mil/sbir/_index.asp

U.S. Navy - SBIR
Office of Naval Research
(ONR 364), SBIR Program
Ballston Tower #2, Room #106
800 N Quincy Street
Arlington, VA, 22217-5660
Tel: 703-696-0342
Fax: 703-696-4884
Prgm Mgr: John Williams
E-mail: williajr@onr.navy.mil
URL: <http://www.navysbir.com/>

U.S. Navy – STTR
Office of Naval Research
One Liberty Center
875 North Randolph St.
ONR 364, Suite 1425, Room 262A
Arlington, VA 22203-1995
Tel: 703-696-0342
Fax: 703-696-4884
Prgm Mgr: John Williams
E-mail: williajr@onr.navy.mil
URL: <http://www.navysbir.com/>

**Defense Advanced Research Projects
Agency**
3701 N Fairfax Dr
Arlington VA 22203-1714
Tel: 703-526-4162
Fax: 703-841-5158
Prgm Mgr: Connie Jacobs
c.jacobs@darpa.mil

Federal Technology Funding Guide

2006

URL: <http://www.darpa.mil/sbir/>

Defense Threat Reduction Agency

6801 Telegraph Rd

Alexandria VA 22310-3398

Tel: 703-325-2046

Fax: 703-325-2955

Prgm Mgr: Robert Kehlet

Robert.Kehlet@dtra.mil

URL:http://www.dtra.mil/dtralink_12Oct04/business_opp/procurement/acq_sbir.cfm

Special Operations Acquisition Center

7701 Tampa Point Blvd SOAL-KS

MacDill AFB, Florida 33621-5323

Tel: 813-828-7549

Fax: 813-828-7504

Prgm Coord: Karen Pera

Perak@socom.mil

URL:<http://soal.socom.mil/index.cfm?page=sadbu&sb=sbirwho>

Federal Technology Funding Guide

2006

National Geospatial-Intelligence Agency

National Geospatial-Intelligence
Agency/IB
MS DN-11
12310 Sunrise Valley Drive
Reston, VA 20191
Phone (703) 735-3887
FAX (703) 735-3960
Prgm Mgr: Kathy Buono
Kathy.m.buono@nga.mil
URL: <http://www.nga.mil>

OSD DDR&E

ODDR&E/LM & TT
5109 Leesburg Pike
Falls Church VA
Tel: 703-693-0458
Fax: 703-681-7534
Prgm Mgr: Teresa Poretz
poretzm@acq.osd.mil
URL: <http://www.acq.osd.mil/sadbu/sbir>

DEPARTMENT OF EDUCATION

Institute of Education Sciences
555 New Jersey Ave NW, Room 608D
Washington, DC 20208-5573
Tel: 202-208-1983
Fax: 202-501-3005
Prgm Mgr: Edward Metz, Ph.D.
Edward.metz@ed.gov
URL:
<http://www.ed.gov/programs/sbir/contact.s.html>

DEPARTMENT OF ENERGY

SBIR/STTR
U.S. Department Of Energy
SC-32/Germantown Building



1000 Independence Ave, SW
Washington, DC 20585-1290
Tel: 301-903-7481
Fax: 301-903-5488
Prgm Mgr: Larry James
larry.james@science.doe.gov
URL: <http://sbir.er.doe.gov/sbir>

DEPARTMENT HEALTH & HUMAN SERVICES

HHS SBIR Program
200 Independence Ave SW
HHH Building - Room 360G
Washington DC 20201
Tel: 202-690-7300
Fax: 202-690-8772
Prgm Mgr: Debbie Ridgely
debbie.ridgely@hhs.gov
URL:
<http://www.nih.gov/grants/funding/sbir.htm>

National Institutes of Health

Office of Extramural Research
6705 Rockledge Drive
Rockledge I Building, Room 3534
Bethesda MD 20892
Tel: 301-435-2688
Fax: 301-480-0146
Prgm Mgr: Joanne Goodnight
jg128w@nih.gov
URL:
<http://www.nih.gov/grants/funding/sbir.htm>

DEPARTMENT OF HOMELAND SECURITY

Dept. of Homeland Security
S&T/HSARPA

Federal Technology Funding Guide

2006

HSARPA SBIR Program
Washington, DC 20528
Tel: 703-797-2283
Fax: 703-797-4510
Prgm Mgr: Tim Sharp
Timothy.Sharp@dhs.gov
URL: <http://www.hsarpasbir.com/>

DEPARTMENT OF TRANSPORTATION

DOT SBIR Program Office, DTS-22
U.S. DOT/RSPA/VNTSC
55 Broadway
Cambridge MA 02142-1093
Tel: 617-494-2051
Fax: 617-494-2370
Prgm Dir: Joseph Henebury
henebury@volpe.dot.gov
URL: <http://www.volpe.dot.gov/sbir/>

ENVIRONMENTAL PROTECTION AGENCY

US Environmental Protection Agency
ORD/NCER/EERD (8722F)
1200 Pennsylvania Ave NW
Washington, DC 20460
Tel: 202-343-9703
Fax: 202-233-0678
Prgm Dir: Dr. James Gallup
Gallup.James@epa.gov
URL: <http://www.epa.gov/ncerqa/sbir>

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

SBIR/STTR Program Management
Office
Code 408, Goddard Space Flight Center
Greenbelt, MD 20771-0001
Tel: 301-286-8888

Fax: 301-286-0321
Prgm Mgr: Paul Mexcur
winfield.p.mexcur@nasa.gov
SBIR: <http://sbir.hq.nasa.gov/>
STTR: <http://sttr.grc.nasa.gov/>

NASA Technology Program Mgmt Office

SBIR/STTR R&D Technology Manager
Code 408/Goddard Space Flight Center
Greenbelt, MD 20771-0001
Tel: 301-286-8506
Fax: 301-286-0321
Prgm Mgr: Dr. James Kalshoven, Jr.
James.e.kalshoven@.nasa.gov
URL:
<http://sbir.gsfc.nasa.gov/SBIR/solicit.htm>

NATIONAL SCIENCE FOUNDATION

4201 Wilson Blvd Room 590
Arlington VA 22230
Tel: 703-292-5111
Fax: 703-292-8050
Dir SBIR: John Cherniabsky
johnchernia@nsf.gov
Dir Ind Innovation: Kesh Narayanan
knarayan@nsf.gov
Coordinator: Jonetta Fantroy
jfantroy@nsf.gov
URL: <http://www.eng.nsf.gov/sbir/>

SMALL BUSINESS ADMINISTRATION

Office of Technology
409 3rd Street SW MC: 6470
Washington DC 20416
Tel: 202-205-6450 / 800-827-5722
Fax: 202-205-7754
Asst Admin: Maurice Swinton



Federal Technology Funding Guide

2006

Maurice.Swinton@sba.gov

URL:

<http://www.sbaonline.sba.gov/sbir/>

Section III: Regular Programs

Federal Technology Funding Guide

2006

How to Use This Section

This section lists over 80 programs and summarizes award opportunities that are either open year-round or occur regularly. It does not include mission-oriented opportunities that are not regularly scheduled.

This section lists programs from 10 federal agencies that occur on a regular basis. A basic description of each agency's R&D interests precedes the description of individual programs.

For a complete list of programs refer to the Catalog of Federal Domestic Assistance (CFDA) website: www.cfda.gov. The following table lists each agency's CFDA number in ascending order.

USDA	Department of Agriculture	10.XXX
DOC	Department of Commerce	11.XXX
DOD	Department of Defense	12.XXX
HUD	Department of Housing & Urban Development	14.XXX
DOI	Department of Interior	15.XXX
DOJ	Department of Justice	16.XXX
DOL	Department of Labor	17.XXX
STATE	Department of State	19.XXX
DOT	Department of Transportation	20.XXX
TREAS	Department of Treasury	21.XXX
ARC	Appalachian Regional Commission	23.XXX
OPM	Office of Personnel Management	27.XXX
CRC	Commission on Civil Rights	29.XXX
EEOC	Equal Employment Opportunity Commission	30.XXX
FCC	Federal Communications Commission	32.XXX
FMC	Federal Maritime Commission	33.XXX
FMCS	Federal Mediation and Conciliation Service	34.XXX
FTC	Federal Trade Commission	36.XXX
GSA	General Services Administration	39.XXX
GPO	Government Printing Office	40.XXX
LC	Library of Congress	42.XXX
NASA	National Aeronautics and Space Administration	43.XXX
NCUA	National Credit Union Administration	44.XXX
NEA	National Endowment for the Arts	45.XXX
NEH	National Endowment for the Humanities	45.XXX
IMLS	Institute of Museum Library Services	45.XXX
NLRB	National Labor Relations Board	46.XXX
NSF	National Science Foundation	47.XXX
RRB	Railroad Retirement Board	57.XXX

Federal Technology Funding Guide

2006

SBA	Small Business Administration	59.XXX
VA	Department of Veteran Affairs	64.XXX
EPA	Environmental Protection Agency	66.XXX
NGA	National Gallery of Art	68.XXX
OPIC	Overseas Private Investment Corporation	70.XXX
CFTC	Commodity Futures Trading Commission	78.XXX
DOE	Department of Energy	81.XXX
ED	Department of Education	84.XXX
HST	Harry S Truman Scholarship Program	85.XXX
PBGC	Pension Benefit Guaranty Corporation	86.XXX
ATBCB	Architectural and Transportation Barriers Compliance Board	88.XXX
NARA	National Archives and Records Administration	89.XXX
DRC	Denali Commission Program	90.XXX
DC	Delta Regional Authority	90.XXX
USIC	Japan-US Friendship Commission	90.XXX
EAC	Election Assistance Commission	90.XXX
USIP	United States Institute of Peace	91.XXX
HHS	Department of Health and Human Services	93.XXX
CNCS	Corporation for National and Community Service	94.XXX
SSA	Social Security Administration	96.XXX
DHS	Department of Homeland Security	97.XXX
USAID	United States Agency for International Development	98.XXX

The following page explains how to read the components of the different programs listed in this guide.

Analysis of Program Description: This page explains how to read the programs listed in this guide.

Program name	Agricultural Research Program – Special Grants	Approval/Disapproval Time: 4-6 months	Time it takes from proposal submission to notification.
Deadline?	Deadline: Varies	Application Results: Not available.	Often includes number of applications, number of recipients.
Program's department followed by the division that runs the program.	Federal Agency: Department of Agriculture, Cooperative State Research, Education and Extension Services (CSREES).	Matching Requirements: As announced in the solicitation of proposals	Matching funds or cost-sharing requirements.
Program purpose, often includes basic research area.	Purpose: To carry out research, extension, and education to facilitate or expand promising breakthroughs in areas of food and agricultural sciences of importance to the nation and to facilitate or expand on-going state-federal food and agricultural research, extension, and education program.	Evaluation Procedures: A peer review panel established by the CSREES Board reviews all proposals.	How proposal is evaluated.
Extent to which program fosters product development. Basic research, R&D, or commercialization.	Focus: Research, commercialization, and education.	Examples: A spatial decision support system for water quality management; nitrogen and phosphorus mineralization in conifer and aspen soils; ecologically based alternatives for management of pecan scab; developing IPM strategies for urban landscape systems.	Examples of funded projects, or funded project areas.
Budget figure, referencing total budget for most recent year, not just budget for grants.	Award Range: \$3,500 to \$1.9 M Award Average: \$153,741 Total Budget: FY 02 \$9.78 M FY 03 \$110.2 M FY 04 \$22.3 M	Notes: None.	How public can be notified of the program solicitation.
Points of contact for the program, including websites, if any.	Contacts: Office of Extramural Program, Proposal Services Branch 14 th and Independence Avenue, SW Washington, DC 20250-2245 (202) 401-5048 (ph) Website: None for this program, but visit the CSREES home page for the latest funding opportunities, http://www.reeusda.gov/	Program Marketing and Solicitation: Federal Register, Commerce Business Daily, Catalog of Federal Domestic Assistance.	Reference number for the Catalog of Federal Domestic Assistance.
Approximate deadline; may vary each year.	Deadline: Varies. Specific deadline dates can be obtained by contacting the Office of Extramural Programs at (202) 401-5048.	Catalog of Federal Domestic Assistance: 10.200	
Where and how to obtain more application information and forms.	Application Procedures/Forms: Information and applications are located on the CSREES web site, http://www.reeusda.gov/ Applications should be submitted to CSREES/SDA as outlined in the guidelines.		

Federal Technology Funding Guide

2006

Department of Agriculture

The Department of Agriculture (USDA) focuses on research to manage and use the nation's natural resources, provide adequate supply of safe food products, plan for future needs of agriculture, and determine nutritional requirements.

Three divisions, the Cooperative State Research, Education and Extension Service (CSREES), the Agricultural Research Service (ARS), and the Economic Research Service (ERS), provide the primary R&D funds for for-profit technology-based firms.

The Cooperative State Research, Education and Extension Service was created to provide a nationwide system of agricultural research and to coordinate research between states and the federal government. Although the division is primarily responsible for research conducted by state agricultural experimentation stations, it oversees two programs: the Biotechnology Risk Assessment and the National Research Initiative, which funds R&D for non-profit firms and other organizations. To attain more information about CSREES, please visit its website at www.csrees.usda.gov.

The Agricultural Research Service helps to find lasting solutions to many agricultural problems, specifically with those that do not have immediate commercial payoff. The ARS division provides the funding for types of research that include: protecting crops and livestock, improving quality and safety of agricultural products, etc. For more information and other areas of research visit www.ars.usda.gov

Five major areas govern the research of the Economic Research Service. These research areas derive from strategic planning in USDA for its research, economics, and education mission. The five major areas are: a competitive agriculture system, a safe food supply, a healthy well nourished population, harmony between agriculture and the environment, and enhanced quality of life for rural Americans. The department is the main source of information and research related to economics in the USDA. Find more information at www.ers.usda.gov

For general information, contact:

U.S. Department of Agriculture
1400 Independence Ave., SW
Washington, D.C. 20250
www.usda.gov

Agricultural Research Program – Special Grants

Deadline: Varies

Federal Agency: Department of Agriculture, Cooperative State Research, Education and Extension Services (CSREES)

Purpose: To carry out research, to facilitate or expand promising breakthroughs in areas of the food and agricultural sciences of importance to the nation and to facilitate or expand on-going State-Federal food and agricultural research programs.

Focus: Research, commercialization, and education.

Award Range: \$56,664 to \$9.5 M

Award Average: \$46,183

Total Budget: FY 05 \$126.5 M;
FY 06 \$132.1 M;
FY 07 est. \$17 M

Contacts:

Competitive Programs
Proposal Services Unit, Stop 2245
1400 Independence Ave.
SW, Washington, DC 20250-2245
(202) 401-5048 (ph)
(202) 401-1782 (fax)

psb@reeusda.gov

Program Website Address: None for this program, but visit the CSREES home page for the latest funding opportunities, <http://www.csrees.usda.gov/>

Deadline: Varies. Specific deadline dates can be obtained by contacting the Office of Extramural Programs at (202) 401-5048.

Application Procedures/Forms: Formal proposals are solicited and should be submitted to the Proposal Services Unit, Competitive Programs, CSREES, USDA, as outlined in the guidelines and/or requests for proposals. Application procedures are contained in the guidelines or request for applications.

Approval/Disapproval Time: 4-6 months

Application Results: N/A

Matching Requirements: As announced in the solicitation of proposals.

Evaluation Procedures: Proposals are reviewed by a peer panel of qualified scientists and other appropriate persons who are specialists in the field covered by the proposal. Proposals are funded in order of merit to the extent permitted by available funds.

Examples: Northwest center for small fruits research program; arid rangelands; economic impacts of agricultural and macroeconomic policy on the U.S. livestock; cataloging genes associated with drought or disease resistances in crop plants.

Notes: None.

Program Marketing and Solicitation: Federal Register, Commerce Business Daily (CBD), Catalog of Federal Domestic Assistance (CFDA).

Catalog of Federal Domestic Assistance: 10.200

Federal Technology Funding Guide

2006

Bioenergy Program

Deadline: July

Federal Agency: Farm Service Agency,
Department of Agriculture

Purpose: To encourage increased purchases of eligible commodities for the purpose of expanding production of such bioenergy and support new production capacity for such bioenergy.

Focus: Research

Award Range: N/A
Award Average: N/A
Total Budget: FY 05 \$100 M
FY 06 est. \$60 M

Contacts:

U.S. Department of Agriculture
Kansas City Commodity Office
Contract Reconciliation Division
Financial Review Branch, Mail Stop 8758
P.O. Box 419205
Kansas City, MO 64141-6205
(816) 926-6525 (ph)
crdfrb@kcc.usda.gov

<subject> Bioenergy Program

Program Website Address:

www.fsa.usda.gov/daco/bio_daco.htm

Deadline: Bioenergy producers who expect to have eligible production at any time during a FY must enroll in the program during or before the applicable FY's sign-up period. For example, a producer with a new plant that is expected to become operational in July 2005 must enroll that plant in the program during FY 2005's sign-up period to

be eligible to receive program payments on that new production during 2005.

Application Procedures/Forms: The Bioenergy Program sign-up period is from August 1 through August 31, or as announced. To participate in the program, producers must complete a Bioenergy Program Agreement (Form CCC 850) and Bioenergy Program Annual Production Information (Form CCC-850 Supplement).

Approval/Disapproval Time: 1-30 days

Application Results: N/A

Matching Requirements: USDA will pay eligible producers up to \$150 million each FY on a quarterly basis. Payments to each producer are capped at 5 percent of available funding (up to \$7.5 million) each FY. USDA will base ethanol payments on the increase in ethanol production compared to the previous FY's production and biodiesel payments on the biodiesel production each FY. Payments will be structured to encourage participation of producers with less than 65 million gallons annual production capacity. Producers with total annual production of: (a) less than 65 million gallons are reimbursed 1 feedstock unit for every 2.5 used for increased production; (b) 65 million gallons or more are reimbursed 1 feedstock unit for every 3.5 used for increased production. In addition, biodiesel producers are reimbursed for base production at 50 percent the rate of increased production. If the applications exceed the program's available funding, USDA will apply a factor to payments to hold program expenditures to available funding for the applicable FY.

Federal Technology Funding Guide

2006

Evaluation Procedures: N/A

Examples: N/A.

Notes: (1) All fuel ethanol production is eligible; however, ethanol under 200 proof will be converted to 200 proof gallons before payment calculations are made; (2) Ethanol producers must produce and sell ethanol commercially and have authority from the Bureau of Alcohol, Tobacco, Firearms, and Explosives to produce ethanol for fuel or sell denatured ethanol rendered unfit for beverage use; (3) Biodiesel producers must produce and sell biodiesel commercially, and the biodiesel must be a mono alkyl ester manufactured in the United States that meets the American Society for Testing and Materials Standard's biodiesel standard.

Catalog of Federal Domestic Assistance:
10.078

Federal Technology Funding Guide

2006

Biotechnology Risk Assessment Research Grants Program (BRARGP)

Deadline: Varies

Federal Agency: Jointly administered by the Department of Agriculture, Cooperative State Research, Education and Extension Services (CSREES) and the USDA Agricultural Research Service (ARS)

Purpose: To carry out risk assessment and risk management research focused on environmental effects of agricultural biotechnology.

Focus: Basic research.

Award Range: \$50,220 to \$223,269
Award Average: \$147,583
Total Budget: FY 03 \$636,480
FY 04 \$697,437
FY 05 \$624,350

Contacts:

Dr. Dan Jones
Program Director
djones@csrees.usda.gov
(202) 401-6854 (ph)
(202) 401-1602 (fax)

Dr. Chris Wozniak
Program Director
cwozniak@csrees.usda.gov
(202) 401-6020 (ph)
(202) 401-6156 (fax)

U.S. Department of Agriculture
CSREES
1400 Independence Ave., Stop 2201
Washington, DC 20250-2201

Program Website Address: BRARGP,
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1075>

Deadline: Contact the Office of Extramural Programs at (202) 401-4048.

Application Procedures/Forms: Pre-proposals and/or formal proposals, as outlined in the solicitation, should be submitted to the Proposal Services Unit, Cooperative State Research, Education, and Extension Service (CSREES). Application procedures are contained in the Research Grant Application Kit.

Approval/Disapproval Time: 4 to 6 months.

Application Results: It is anticipated that funded projects will advance the safe application of biotechnology to agriculture.

Matching Requirements: None.

Evaluation Procedures: Proposals are reviewed by a peer panel of qualified scientists and other appropriate persons who are specialists in the field covered by the proposal. Proposals are funded in order of merit to the extent permitted by available funds.

Examples: Factors affecting crop gene flow and introgression into natural populations; transgenic fish; testing models to assess risk; risk assessment of a recombinant baculovirus expressing a protease; the hazard of pest evolution: accuracy and precision of genetic risk assessments; assessing risk of bt corn to nontarget soil arthropods: direct and indirect effects.

Federal Technology Funding Guide

2006

Notes: Applications must seek partial funding for a conference or address one of the following areas:

- 1) Identify and develop practices to minimize risks associated with genetically engineered organisms;
- 2) Research methods to monitor the dispersal of genetically engineered organisms;
- 3) Research to increase knowledge about the characteristics, rates and methods of gene transfer that may occur between genetically engineered organisms, and related organisms;
- 4) Perform assessments to provide analysis which compares impacts of organisms, modified through genetic engineering to other types of production systems; or
- 5) Other areas of research designed to further the purposes of the USDA BRAG program.

Program Marketing and Solicitation:
Federal Register, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
10.219

Federal Technology Funding Guide

2006

Forestry Research Program

Deadline: None

Federal Agency: Department of Agriculture,
Forest Service

Purpose: To extend fundamental research activities of the Forest Service by awarding grants to nonprofit organizations, institutions of higher education, and organizations engaged in renewable resources research.

Focus: Basic research.

Award Range: \$2,000 to \$300,000

Award Average: \$35,000

Total Budget: FY 03 \$13.8 M
FY 04 \$14 M
FY 05 est. \$14 M

Contacts:

Deputy Chief for Research
Forest Service, Department of Agriculture,
P.O. Box 96090
Washington, DC 20090-6090
Telephone: (202) 205-1665

Duana Williams
Program Contact
Telephone: (202) 205-1182
Initial contact for grants can be made to the
Directors of the Research Experiment
Stations or the Forest Products Laboratory at
(608) 231-9200.

Program Website Address:

www.fs.fed.us/links/research.html

Deadline: Applicants may contact the
Research Experiment Stations for deadlines.

Application Procedures/Forms: A complete research proposal must be submitted following guidelines available in each of the offices referred to above. The proposal must explain in detail the work to be undertaken, the qualifications of key personnel involved in the work, other resources such as equipment, facilities, and services available or needed, and a proposed budget for each fiscal year during the life of the proposed grant. A short biographical sketch of the principal investigator and a list of his or her principal publications should be included.

Approval/Disapproval Time: 120 days.

Application Results: N/A

Matching Requirements: The applicant's contribution is negotiated.

Evaluation Procedures: All research grant proposals must compete for priority in technical competence and meeting national or regional needs. Research grants are made only in support of forestry research.

Examples: Effects of prescribed fire on nutrient cycling in ponderosa pine forests; design and test of a proposed experimental system for continuous press drying of paper; biological decay of logging residues.

Notes: Grants will be used for research in all fields of forest management, ranging from wildlife habitat management to urban forestry. Grants are limited to a 5-year duration.

Program Marketing and Solicitation: Commerce Business Daily, Federal Register, Catalog of Federal Domestic Assistance.



Federal Technology Funding Guide 2006

Catalog of Federal Domestic Assistance:
10.652

Federal Technology Funding Guide

2006

National Research Initiative Competitive Grants Program (NRI)

Deadline: Varies by Program Area

Federal Agency: Department of Agriculture, Cooperative State Research, Education, and Extension Service (CSREES)

Purpose: To support research in food production or human nutrition areas, including developing sustainable production systems; optimizing livestock and crop health; food safety; and finding new uses for agricultural products.

Focus: Alternative product use, R&D.

Award Range: \$4,000 to \$5 M
Award Average: \$183,607
Total Budget: FY 03 \$112.5 M
FY 04 \$154.9 M
FY 05 est. \$150.9 M

Contacts:

Anne K. Vidaver, Chief Scientist
(202) 401-2653 (ph)
Email: avidaver@reeusda.gov

Dr. Peter Johnson, Director, Nutrition, Food Safety, and Health Division; Animals Division
(202) 401-1896 (ph)
(202) 205-3641 (fax)
Email: pjohnson@reeusda.gov

Dr. Mark Poth, Acting Director, Natural Resources and the Environment Division; Enhancing Value and Use of Agricultural and Forest Products Division
(202) 401-4871 (ph)
(202) 401-6071 (fax)

Email: mpoth@reeusda.gov

Dr. Ed Kaleikau, Director, Pest Biology and Management Division; Plants Division; Markets, Trade, and Rural Development Division
(202) 401-6030 (ph)
(202) 401-6488 (fax)
Email: ekaleikau@reeusda.gov

Dr. Deborah Sheely, Director, Agricultural Systems Division
(202) 401-1924 (ph)
(202) 401-6488 (fax)

NRI Competitive Grants Program
U.S. Department of Agriculture
Ag Box 2241
14th and Independence Ave., SW
Washington, DC 20250-2241
(202) 401-5022 (ph)
(202) 401-6488 (fax)
Email: nricgp@reeusda.gov

Program Website Address: National Research Initiative Competitive Grants Program,
<http://www.csrees.usda.gov/funding/nri/nri.html>

Deadline: November to February 15. When the deadline date for a program falls on a weekend or Federal holiday, proposals must be postmarked by the normal business day immediately following the published deadline date.

Application Procedures/Forms: Paper copies may be requested from: NRI; c/o Proposal Services Unit/OEP/CSREES/USDA; STOP 2245; 1400 Independence Ave., SW, Washington, D.C. 20250. Phone: (202) 401-5048.



Federal Technology Funding Guide

2006

Applications also available online at
<http://www.reeusda.gov/nri/programs/programs.htm>

Approval/Disapproval Time: 90-180 days

Matching Requirements: None.

Evaluation Procedures: External peer review. Proposals are accepted in order of merit to the extent permitted by available funds.

Examples: Dietary protein affects calcium and bone metabolism; effects of zinc on nuclear actions of thyroid hormone; molecular genetic analysis of low temperature signal transduction in plants; the contribution of deep roots to whole-plant water relations and xylem; and ovarian dynamics and host use in a tephritid fly.

Notes: The selected areas for research in 2002 were agricultural systems, plants, pest biology and management, markets, trade and rural development, animals, nutrition, food safety and health, natural resources and the environment, and enhancing value and use of agricultural and forest products.

Program Marketing and Solicitation: Program website, Federal Register, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
10.206

Federal Technology Funding Guide

2006

Pest Management Alternatives Program

Deadline: February 20

Federal Agency: Department of Agriculture, Cooperative State Research, Education, and Extension Service.

Purpose: To develop and implement new alternative pest management tactics to ensure that producers have reliable methods of managing pests, and to provide alternatives where pest resistance limits pest management options.

Focus: Alternative product use, commercialization.

Award Range: \$50,000 - \$200,000

Award Average: \$85,000

Total Budget: \$1.4 M

Contacts:

Dr. Monte Johnson
USDA - CSREES
1400 Independence Avenue SW, Stop 2201
Washington, DC 20250-2201
(202) 401-1108 (ph)
(202) 401- 4888 (fax)
mpjohnson@csrees.usda.gov

Program Website Address:

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1114>

Deadline: February of each year. The Request for Proposals (RFP) is usually released in December of the preceding year.

Application Procedures/Forms:

Applications may be obtained by contacting: Special Research Grants – Pest Management

Alternatives Program; c/o Proposal Services Unit; Office of Extramural Programs, CSREES; U.S. Department of Agriculture; Stop 2245; 1400 Independence Avenue, SW; Washington, D.C., 20250-2245. Applicants can also call (202) 401-5048 or email psb@reeusda.gov to request applications.

Approval/Disapproval Time:

Approximately 4-6 months.

Application Results: Approximately 13-25 grants are awarded each year.

Matching Requirements: None, although cost-sharing is encouraged.

Evaluation Procedures: Proposals will be reviewed by a panel of agency and university experts for relevancy to current needs, methodology and scientific rigor.

Examples: Reducing Organophosphates in Apples; Modified Cropping System Replaces Herbicides; Reducing Aerial Pesticide Pollutants; Scouting Pest and Natural Enemy Densities; Monitoring Pesticide Use Efficiencies; Improving Spray Technology; Selective Insecticides; and Non-traditional Oil Sprays.

Notes: This program is six years old. Look for the new Request for Proposals in January. This is a highly targeted program that focuses on short-term research (usually within a span of two years). Consult new RFP for priority list of pesticides.

Program Marketing and Solicitation:

Agency website, Federal Register.

Federal Technology Funding Guide

2006

Renewable Energy Systems & Energy Efficiency Improvements Program

Deadline: June

Federal Agency: Rural Business-Cooperative Services, Department of Agriculture

Purpose: To create a program to make direct loans, loan guarantees, and grants to agricultural producers (farmers and ranchers) and rural small businesses to help reduce energy costs and consumption and help meet the nation's critical energy needs.

Focus: Loans.

Award Range: \$2,500 to \$500,000
Award Average: \$125,000
Total Budget: FY 05 \$10.1 M
FY 06 est. \$176.5 M
FY 07 est. \$35 M

Contacts:

Rural Business-Cooperative Services
Department of Agriculture
1400 Independence Ave. SW
Washington, DC 20013
(202) 720-1400 (ph)

Program Website Address:

www.rurdev.usda.gov/rbs

Deadline: June

Application Procedures/Forms: The applicant must submit a complete application to the Rural Energy Coordinator in their respective State. A complete application includes standards forms 424, 424C and 424D plus Rural Development

forms, feasibility studies, energy audits, and written technical requirements.

Approval/Disapproval Time: 60-180 days

Application Results: In fiscal year 2005, 156 projects were funded. Based on funding levels, we anticipate approximately the same number of projects will be funded in fiscal year 2006. Considering the estimated drop in funding level for fiscal year 2007, funding activity is anticipated to be comparable to fiscal year 2005.

Matching Requirements: The applicant must provide at least 75 percent of leveraged funds if the request is for grant funds. For a combination grant, loan and loan guarantee, the applicant must provide at least 50 percent of leveraged funds. In-kind contributions and other Federal grants may not be used to meet the 75 percent requirement.

Evaluation Procedures: N/A

Examples: Purchase and installation of a small solar system; purchase of a large wind turbine; making energy efficiency improvements to an existing facility; anaerobic digester; purchase and installation of a biomass electric generation facility.

Notes: None

Catalog of Federal Domestic Assistance: 10.775

Federal Technology Funding Guide

2006

Scientific Cooperation and Research

Deadline: January

Federal Agency: Foreign Agricultural Service, Department of Agriculture

Purpose: To advance cooperation in areas of bilateral trade and market access, agriculture, animal and plant health, biotechnology, food safety and security, and sustainable natural resource management through long-term collaborative research worldwide and through short term scientific exchanges coordinated by USDA and the People's Republic of China's Ministry of Agriculture..

Focus: R&D.

Award Range: \$5,000 to \$45,000
Award Average: \$20,000
Total Budget: FY 05 \$916,025;
FY 06 est. \$830,000;
FY 07 est. \$830,000

Contacts:
Susan J. Owens
Director
USDA/FAS
International Cooperation and Development
Research and Scientific Exchanges Division
Washington DC 20250-1084
(202) 690-4872 (ph)

Program Website Address:
<http://www.fas.usda.gov/icd/grants/scrp.htm>

Deadline: September or October.

Application Procedures/Forms: Program guidelines with detailed application

procedures are available on the internet through the USDA Foreign Agricultural Service website at:
<http://www.fas.usda.gov/icd/grants/scrp.htm>
or through Grants.gov, a government-wide internet portal for federal funding, at:
<http://www.Grants.gov> under Catalog for Federal Domestic Assistance Number (CFDA) 10.961. Guidelines are also available directly from the Foreign Agricultural Service's Research and Scientific Exchanges Division, USDA/FAS/ICD/RSED/SCEP, Mail Stop 1084, 1400 Independence Avenue, SW, Washington, D.C. 20250-1084. Applications may be submitted either electronically or as printed copies by mail or hand delivery by the proposal deadline. Any changes to the deadline or guidelines will be accessible on the internet through <http://www.Grants.gov> under CFDA Number 10.961 or the Foreign Agricultural Service Web site at:
<http://www.fas.usda.gov/>.

Approval/Disapproval Time: 60-150 days

Application Results: N/A

Matching Requirements: The Scientific Cooperation Exchange Program with the People's Republic of China operates under a receiving side pays arrangement with the People's Republic of China. U.S. program participants, however, are responsible for their international airfare. For long-term collaborative research projects under the Scientific Cooperation Research Program, participating U.S. institutions are expected to share a portion of project costs or arrange supplemental funding from other sources. These programs have no statutory formula or matching requirements..

Federal Technology Funding Guide

2006

Evaluation Procedures: Program staff members review and evaluate all proposals with the assistance and advice of qualified U.S. scientists. Proposals are selected according to how well they meet criteria that includes scientific or technical merit of the proposed activity; suitability of the investigators and institutions; feasibility of achieving proposal objectives; relevance to priority issues in U.S. trade and market access, agriculture, animal and plant health, biotechnology, food safety and security, and sustainable natural resource management. Proposals are funded to the extent permitted by available funds.

Examples: Mississippi State University researchers are collaborating with scientists in Guyana to identify genes for drought tolerance, yield, and root storage quality for improving the sweet potato, one of Mississippi's top cash crops. Fort Valley

State University and Danish scientists are jointly determining effective biological control of the internal parasites that are a major obstacle in limiting growth of the goat industry. Joint research projects with Ireland using biotechnology for food safety are evaluating the steps in meat animal slaughter and dressing to be used in determining necessary controls or interventions, and identifying the on-farm factors that influence the prevalence of E. coli by focusing on contaminated feeds and water supplies, and pre-slaughter transport and stockyard conditions.

Notes: None

Catalog of Federal Domestic Assistance:
10.961

Federal Technology Funding Guide

2006

Department of Commerce

The Department of Commerce (DoC) focuses on developing foreign and domestic commerce to increase America's competitiveness in the world economy.

The two principal agencies within this department that fund R&D are the National Oceanic and Atmospheric Administration (NOAA) and the National Institute of Standards and Technology (NIST). In addition, other agencies also provide funding for technology developments. The Economic Development Administration (EDA), for example, helps to eliminate unemployment through building economic infrastructure.

NIST (<http://www.nist.gov/>) operates eight research laboratories and three outreach programs. Extramural funding is available through two competitive programs, the Small Business Innovation Research Program (SBIR) and the Advanced Technology Program. For further information, contact:

Joyce F. Brigham
National Institute of Standards and Technology
100 Bureau Drive, STOP 3580
Gaithersburg, MD 20899-3580
Telephone: (301) 975-6329
joyce.brigham@nist.gov

NOAA focuses on a variety of atmospheric and oceanic activities. The division conducts research on marine animals, the oceans and inland waters, the lower and upper atmosphere, space environment, and technology development for the marine community. There are five offices within NOAA: National Environmental Satellite, Data and Information Service (NESDIS), National Weather Service (NWS), Office of Oceanic and Atmospheric Research (OAR), National Ocean Service (NOS), and National Marine Fisheries Service (NMFS). All but the first have grant programs, which are included in the following pages. Additional information can be found on their website at <http://www.noaa.gov>.

Note: universities receive most of the NOAA research funding. Also, the Fisheries Development and Utilization Grants Program (Saltonstall-Kennedy Grant Program) is discontinued in FY2005 due to insufficient funding.

For more information, contact:
Office of Public Affairs
National Oceanic and Atmospheric Administration
Room 6217
14 Street & Constitution Avenue, NW
Washington, D.C. 20230
Phone: (202) 482-6090

Federal Technology Funding Guide 2006

Fax: (202) 482-3154

Federal Technology Funding Guide

2006

Advanced Technology Program

Deadline: Varies from Year to Year

Federal Agency: Department of Commerce,
National Institute of Standards and
Technology

Purpose: To work in partnership with
industry to foster the development and broad
dissemination of challenging, high-risk
technologies that offer the potential for
significant, broad-based economic benefits
for the nation.

Focus: Technology Development

Award Range: \$434,000 to \$31.0 M

Award Average: \$2.9 M

Total Budget: FY05 \$96.9 M;
FY06 est. \$47.2 M

Contacts:

Advanced Technology Program
NIST

100 Bureau Drive, Stop 4701
Gaithersburg, MD 20899-4701
1-800-ATP-FUND (ph)
(301) 926-9524 (fax)

atp@nist.gov

Marc G. Stanley, Director
Advanced Technology Program
(301) 975-2162 (ph)
marc.stanley@nist.gov

To receive application kits, contact ATP
customer service staff:

ATP Hotline: 1-800-ATP-FUND

atp@nist.gov

Program Website Address: ATP,
<http://www.atp.nist.gov/>

Deadline: Deadlines for proposal
submissions are contained in the formal
competition announcements and requests for
proposals published in the "Federal
Register" and "Federal Funding
Opportunity" available at www.grants.gov.

Application Procedures/Forms: Proposal
are submitted under a multi-stage and
sequential review process to reduce the
amount of information required at one time.
Required information is submitted at
different stages as determinations are made
by ATP that proposals have high merit
based on the selection criteria. These stages
in the review process are called "gates."
Proposals must pass through each gate in
order to receive funding. Proposals should
be submitted only in response to formal
competition announcements and requests for
proposals published in the "Federal
Register" and "Federal Funding
Opportunity" available at www.grants.gov.

Approval/Disapproval Time: 120 to 180
days.

Application Results: In FY2004 Batch 1
Competition Phase, ATP awarded 32
proposals from 870 submissions.

Matching Requirements: Single company
recipients are responsible for funding all of
their overhead/indirect costs. Cost sharing is
not required for small and medium sized
companies applying as single company
proposers. At least 60% cost sharing is
required for large companies applying as
single company proposers.

Federal Technology Funding Guide

2006

Evaluation Procedures: Technical and business reviewers base their decisions on a two-part criterion: projects will be evaluated for their scientific and technological merit and for their potential for broad-based economic benefits, with both parts weighted equally. The scientific and technological merit is determined by assessing the innovations in the technology, technical risk and feasibility, and the quality of the R&D plan. The potential for broad-based economic benefits is evaluated based on the proposed technology's potential for substantial benefits to the nation, why ATP support is needed in place of private funding sources, and how the technology will be commercialized.

Examples: Printed wiring board manufacturing technology, flat panel display manufacturing, handwriting recognition, magnetoresistive random access memories, deep ultraviolet lasers, high temperature superconducting material processes, superconducting motors, stem cell expansion, viral inactivation, scalable high-density electronics, polymeric switches, nanocrystalline ceramics, polymer compatibilization, catalysis, biocatalysis, process chemistry, combinatorial methods, aquaculture, net-shaped ceramic processing, neural network controls, thermoplastic liquid composite molding, autonomous robots, digital image compression, software for managing complex healthcare data, and biochips for DNA diagnostics.

Notes: The ATP website is an excellent source of information. Single for-profit company recipients can receive ATP R&D funds for activities up to 3 years, with ATP funding not to exceed \$2 million for direct

costs. ATP funds may only be used to pay for direct costs for single company recipients.

Joint ventures can receive ATP funds for R&D activities for up to 5 years, with ATP funding a minority share of the total project costs. Joint ventures must cost-share more than 50 percent of the total project costs.

Program Marketing and Solicitation: Mailing list of over 40,000, news media, Commerce Business Daily, program website, and Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
11.612

Federal Technology Funding Guide

2006

Climate and Atmospheric Research Program

Deadline: April

Federal Agency: Department of Commerce, National Oceanic and Atmospheric Administration.

Purpose: To develop the knowledge required to establish a predictive capability for short and long-term climate fluctuations and trends in the global environment.

Focus: R&D.

Award Range: \$50,000 to \$200,000
Award Average: \$85,000
Total Budget: FY 05: \$47,000,000;
FY 06 est. \$36.0 M;
FY 07 est. \$45.0 M

Contacts:

Diane Brown
NOAA Office of Global Programs
1100 Wayne Avenue, Suite 1210
Silver Spring, MD 20190-5603
(301) 427-2089 ext. 107
(301) 427-2222 (fax)
diane.brown@noaa.gov

Program Website Address: Climate and Atmospheric Research Program,
<http://www.climate.noaa.gov/>

Deadline: none

Application Procedures/Forms:

Submit an electronic application to Grants.gov APPLY for financial assistance (SF 424) with statement of work to be performed and proposed amount.

Approval/Disapproval Time: 100 to 200 days.

Application Results: In fiscal year 2005, approximately 65 new grants were awarded.

Matching Requirements: Cost Sharing is only required in one program element competition which is the NOAA Climate Transition Program (NCTP) where the Cost Share Percentage must be at least 5% of the total costs. The other competitions have no cost sharing requirement.

Evaluation Procedures: Proposals are subject to office and peer review process taking into consideration primarily scientific merit and application to office research goals. Principal investigators' qualifications and cost are also considered, with cost subject to negotiation.

Examples: Numerical weather prediction using global weather data; prediction of planetary circulation; implementation of sea level network in the Indian Ocean; dynamical forecast of El Nino; and circulation of the S.W. Tropical Pacific Ocean.

Notes: FY 02 program priorities included aerosols, atmospheric chemistry, climate observation, climate and societal interactions, climate change data and detection, climate dynamics and experimental prediction, climate variability and predictability, health and climate variability, and the economics and human dimensions of climate fluctuations.

Program Marketing and Solicitation: Federal Register, Catalog of Federal Domestic Assistance.

Federal Technology Funding Guide 2006

Catalog of Federal Domestic Assistance:
11.431

Federal Technology Funding Guide

2006

Hydrologic Research Program

Deadline: None

Federal Agency: Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Weather Service

Purpose: To maintain a cooperative university/Federal partnership to conduct joint research and development on pressing surface water hydrology issues common to National, regional, local operational offices, private consulting hydrologists, and academics.

Focus: R&D.

Award Range: \$5,000 to \$100,000

Award Average: \$25,000

Total Budget:
N/A

Contacts:

George Smith
Lab Chief
Hydrologic Research Laboratory
National Weather Service - W/OHD-1
1325 East-West Highway,
Silver Spring, MD 20910
(301) 713-0640, ext. 117
george.smith@noaa.gov

Program Website Address:

<http://www.nws.noaa.gov/oh/hrl/>

Deadline: Check the HRL/OH website.

Application Procedures/Forms: Proposals, including a statement of work and budget, are submitted to Chief of the Training

Division of OCWWS. When details of the work and budget are mutually agreed upon, the complete proposal will be prepared and formally submitted. Complete grant or cooperative agreement proposals will include forms SF-424 Application for Federal Assistance, SF-424A, Budget Information Non-Construction Programs, statement of work, budget and supporting details, negotiated indirect cost rate sheet, and CD-511 Certifications Regarding Debarment, Suspension and Other Responsibility Matters, Drug Free Workplace Requirements, and Lobbying statements. Cooperative activities and funding amounts are determined through an evaluation conducted in coordination with the Director of OCWWS, and staff.

Approval/Disapproval Time: 90 to 180 days.

Application Results: N/A

Matching Requirements: None.

Evaluation Procedures: Awards are made on the basis of proposal evaluations and technical and administrative reviews. Proposal will be submitted to the NOAA Grants Management Division for review and approval. Cooperative activities and funding amounts are determined through an evaluation conducted in coordination with the Director of the Office of Hydrologic Development by the Chief of the Hydrology Laboratory, and the technical experts of the Laboratory.

Examples: Project to further automate the calibration of hydrologic models; development of procedure to enhance flash flood guidance; development and testing of

Federal Technology Funding Guide

2006

distributed rainfall/runoff models using radar-derived rainfall data; demonstration project to show practical benefits from extended streamflow predictions in a probabilistic framework; and investigations of flash flood models in arid climates.

Notes: This program is highly targeted and typically works with universities on issues related to the forecasting of surface hydrologic conditions. Companies involved in using and developing hydrologic forecasts (either for reducing flood damages or for water management decisions) are also eligible to apply.

Program Marketing and Solicitation:
Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
11.462

Federal Technology Funding Guide

2006

Meteorologic and Hydrologic Modernization Development Program

Deadline: None

Federal Agency: National Oceanic and Atmospheric Administration, National Weather Service.

Purpose: To conduct meteorological training, education, professional development, and R&D on issues common to the hydrometeorological community.

Focus: R&D.

Award Range: \$15,000 to \$4.0 M
Award Average: See App. Results
Total Budget: FY 03 \$4.1 M
FY 04 est. \$5.3 M
FY 05 est. \$5.3 M

Contacts:
Chief, Training Division
National Weather Service/OS6
1325 East-West Highway
Silver Spring, MD 20910
(301) 713-0280 (ph)
(301) 713-1598 (fax)

Program Website Address: www.noaa.gov

Deadline: None.

Application Procedures/Forms:

Consultation in the preparation of forms is available from the Office of Meteorology. Proposals, including a statement of work and budget, are submitted to the Chief of the Training Division of Office of Climate, Water and Weather Services, and reviewed by the Director. Complete grant or

cooperative agreement proposals will include forms SF-424, SF-424A, and CD-511.

Approval/Disapproval Time: 90 to 180 days.

Application Results: Proposals are treated in the standard peer review process. COMET produces cost-effective Web-Based modules and has produced four modules within the last year, which are available freely on the web at <http://meted.ucar.edu/>.

Matching Requirements: None.

Evaluation Procedures: Office and peer review process taking into consideration scientific merit, applicability to office research goals, principal investigator's qualifications, cost, and available funding.

Examples: The COMET, AMS & UVA are projects funded under this program.

Notes: Companies involved in using and developing meteorological or hydrologic forecasts or forecast methodology are encouraged to apply.

Program Marketing and Solicitation:
Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
11.467

Federal Technology Funding Guide

2006

National Marine Sanctuary Program

Deadline: Varies

Federal Agency: Department of Commerce, National Oceanic and Atmospheric Administration (NOAA).

Purpose: To identify areas of the marine environment of special national significance due to their resource or human-use values; to provide authority for comprehensive and coordinated conservation and management of these marine areas that will complement existing regulatory authorities; to support, promote, and coordinate scientific research on, and monitoring of, the resources of these marine areas; to enhance public awareness, understanding, appreciation, and wise use of the marine environment; and to facilitate, to the extent compatible with the primary objective of resource protection, all public and private uses of the resources of these marine areas not prohibited pursuant to other authorities; and to support organizations that provide environment-based education to students, teachers and communities.

Focus: Basic research.

Award Range: \$20,000 to \$2.5 M
Award Average: \$202,222
Total Budget: FY 05 \$19.1 M;
FY 06 est. \$16.6 M;
FY 07 est. \$10.0 M

Contacts:

Maureen Warren
(301) 713-3125 x251 (ph)
maureen.warren@noaa.gov

Matthew Stout

(301) 713-3125 x273 (ph)
matthew.stout@noaa.gov

NOAA National Marine Sanctuary Program
1305 East West Highway
Silver Spring, MD 20910
(301) 713-0404 (fax)

Program Website Address: National Marine Sanctuary Program,
<http://sanctuaries.noaa.gov/>

Deadline: Proposals should be submitted 120 days prior to the beginning date of the cooperative agreement.

Application Procedures/Forms: Proposals are submitted through Grants.Gov. Applicants will need to enter the Funding Opportunity Number and/or CFDA number to access the application package and instructions.

Approval/Disapproval Time: 90 to 120 days.

Matching Requirements: None.

Evaluation Procedures: A set of ranking criteria includes: importance of the information or transaction for sanctuary management decisions, and generic applicability of lessons learned from the effort.

Examples: Sanctuary habitat and site resource characterizations; a cold water system; baseline measurements of spatial arrangements and population dynamics in marine sanctuary reef communities; and development of Geographic Information Systems.

Federal Technology Funding Guide

2006

Notes: Individual sanctuary managers prepare Annual Operating Plans (AOPs) detailing projects and programs that will be funded throughout any given FY. At this time, few awards are issued at the national level; most are processed through the individual 13 sanctuaries. However, this may change in the future as the program expands and as certain administrative functions are centralized at the program headquarters' office.

Program Marketing and Solicitation:

Individuals Sanctuary Managers work with regional Administrative Service Centers to solicit bids for procurements and contract awards. Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
11.429

Federal Technology Funding Guide

2006

National Undersea Research Program

Deadline: Varies

Federal Agency: Department of Commerce, National Oceanic and Atmospheric Administration (NOAA).

Purpose: To place man safely undersea to conduct research in support of National Oceanic and Atmospheric Administration (NOAA) and national science requirements.

Focus: R&D.

Award Range: \$15,000 to \$2.2 M
Award Average: \$880,000
Total Budget: FY 05 \$15.0 M;
FY 06 est. \$8.4 M;
FY 07 est. \$8.0 M

Contacts:

Barbara Moore, Director
NURP & NOAA
1315 East-West Highway, R/NURP
Silver Spring, MD 20910
(301) 713-2427 ext. 127 (ph)
(301) 713-1967 (fax)
barbara.moore@noaa.gov

Program Website Address:
<http://www.nurp.noaa.gov>

Deadline: None.

Application Procedures/Forms: Formal proposal to the appropriate regional, university-based National Undersea Research Center (NURC). Research announcements and application forms may be obtained from the National Undersea Research Centers (NURC). Refer to website.

Approval/Disapproval Time: 90 to 150 days.

Application Results: N/A

Matching Requirements: None.

Evaluation Procedures: Awards are made on the basis of proposal evaluation.

Examples: Nutrient Cycling and Primary Productivity of Marine Ecosystems; Recruitment Processes of Fish and Invertebrates; Diving safety and physiology research; submarine venting of liquids and gases

Notes: NURCs are part of a regional network formed to effectively implement science programs based on local awareness of regional research problems. The NURCs facilitate this research through direct interactions with the scientific community, sponsorship of regional workshops, and solicitation and evaluation of research proposals. Nearly all awards are granted through the NURCs. Refer to the program website for more information. Grants, which come from the "Delta fund" (a segment of the NURP annual budget set aside for competition among the NURCs), may be used for R&D and to purchase and/or lease technology in support of program goals. Six Regional NURC's:

Hawaii and Western Pacific
University of Hawaii – Manoa

West Coast and Polar Regions
University of Alaska – Fairbanks

Federal Technology Funding Guide 2006

North Atlantic and Great Lakes
University of Connecticut – Avery Point

Mid-Atlantic Bight
Rutgers University

Southeast and Gulf of Mexico
University of North Carolina – Wilmington

Caribbean
Caribbean Marine Research Center
Jupiter, FL

Program Marketing and Solicitation:
NURC website, Catalog of Federal
Domestic Assistance.

Catalog of Federal Domestic Assistance:
11.430

Federal Technology Funding Guide

2006

Sea Grant Support Program

Deadline: Varies from Year to Year

Federal Agency: Department of Commerce, National Oceanic and Atmospheric Administration (NOAA)

Purpose: To support the establishment and operation of major university centers for marine resources research, education, and training and to support marine advisory services.

Focus: R&D.

Award Range: \$5,000 to \$3.9 M
Award Average: N/A
Total Budget: FY 05: \$58.9 M;
FY 06 est. \$51.2 M;
FY 07 est. \$51,2 M

Contacts:
Leon Cammen
Director
(301) 713-2448 x189
leon.cammen@noaa.gov

Joseph Brown
Administrative Assistant
(301) 713-2438 x135
joe.brown@noaa.gov

National Sea Grant Office
NOAA/Sea Grant, R/SG
1315 East-West Highway
SSMC-3, Eleventh Floor
Silver Spring, MD 20910
(301) 713-2431 (ph)
(301) 713-0799 (fax)

Program Website Address: National Sea Grant

<http://www.nsgo.seagrants.org/index.html>

Deadline: Various. Check Sea Grant website for national competitions. A call for preliminary project proposals is normally distributed in February.

Application Procedures/Forms: Made in a proposal to Headquarters Office or local Sea Grant program fully documenting need for grant and proposed amount. This program is excluded from coverage under OMB Circular No. A- 102.

Approval/Disapproval Time: 90 to 180 days.

Application Results: In fiscal year 2004, about 800 projects were funded.

Matching Requirements: At least one-third of total costs must be obtained from nonfederal sources. Projects designed to meet specified national needs may be supported up to 100 percent.

Evaluation Procedures: Awards are made competitively on the basis of proposal evaluation.

Examples: Cardiovascular, anticancer, and central nervous system drugs from marine organisms; corrosion in seawater; fisheries oceanography; and effect of pollutants on marine resources and ecosystems.

Notes: Companies acting as sole applicants do not receive funding from Sea Grant Colleges. Most often firms receive funding if they are working with an academic institution and research scientists.

Federal Technology Funding Guide

2006

The Sea Grant Program is a regional program funded by NOAA. More than 30 colleges and universities administer the Sea Grant Program in a number of coastal states. Although the two Sea Grant Programs in California are primarily independent, they successfully coordinate their activities. In terms of research focus, University of California, San Diego's program is broad while University of Southern California focuses on the Urban Ocean (the coastal ocean near large urban areas).

Sea Grant Topics:

- Aquaculture
- Biotechnology
- Coastal Communities & Economies
- Coastal Natural Hazards

- Digital Ocean
- Ecosystems & Habitats
- Fisheries
- Marine Aquatic Science Literacy
- Seafood Science & Technology
- Urban Coasts
- Aquatic Invasive Species

National Priority Areas:

- Fisheries Extension
- Harmful Algal Blooms
- Oyster Disease Research

Program Marketing and Solicitation:

Mailing list to universities and corporations.

Catalog of Federal Domestic Assistance:

11.417

Department of Defense

The Department of Defense (DoD) is composed of numerous R&D institutions and is the federal government's largest contractor of funds to private industry. The Army, Navy, and Air Force all fund extramural research across an array of areas – from environmental technology to electronic components to biotech. In addition, the Defense Advanced Research Projects Agency (DARPA) is the Defense Department's strategic research organization and a significant technology-funding agency. The Department of Defense does not issue grants; however, it funds R&D contracts for projects that contain *advance knowledge and meet agency objectives*.

The following divisions within the DoD fund R&D projects:

Air Force (www.af.mil)

The Air Force Research Laboratory (AFRL) leads the discovery, development, and transition of integrated technologies for the nation's air and space forces. Various research programs spanning all disciplines are executed at nine technology directorates located throughout the U.S. and at the Air Force Office of Scientific Research, which is the basic research manager of the AFRL. Each entity issues separate solicitations on a case-by-case basis, although the programs listed here are ongoing.

Navy (www.navy.mil)

The Navy's Office of Naval Research conducts basic and applied research across most scientific disciplines. The Office is responsible for naval research and technology programs based on long range naval and Marine Corps objectives. The Office maintains an ongoing program and also issues separate solicitations on a case-by-case basis.

Army (www.army.mil)

The U.S. Army, Office of the Chief of Engineers oversees research related to the army's civil works program, including major dams, reservoirs, levees, and other structures. In particular, divisions of this office provide protection against flood control and for advancement in construction techniques. Other contracting entities include the U.S. Army Medical Research and Materiel Command and the Army Corps of Engineers.

DARPA (www.darpa.mil)

As mentioned above, the Defense Advanced Research Projects Agency – an independent military agency – funds primary R&D projects vital to the nation's defense. Although the description listed in this section does not refer to a particular program, DARPA is a key source for R&D projects that have both commercial and military purposes. The agency funds the Dual Use Science & Technology Program, a new effort aimed at developing dual use defense systems technologies, and the U.S. Display Consortium, dedicated to further develop the flat panel display manufacturing industry.

Federal Technology Funding Guide 2006

For additional information, contact:

OASD(PA)/DPC
1400 Defense Pentagon, Room 1E757
Washington, DC 20301-1400
Phone: (703) 697-5737

Federal Technology Funding Guide

2006

Air Force Defense Research Sciences Program

Deadline: None

Federal Agency: Department of Defense;
Air Force Office of Scientific Research.

Purpose: To maintain technological superiority in the scientific areas relevant to Air Force needs; to prevent technological surprise to our nation and create it for our adversaries; to maintain a strong research infrastructure composed of Air Force laboratories, industry, and universities; and to complement the national research effort.

Focus: Basic research.

Award Range: \$50,000 to \$5.0 M
Award Average: \$500,000
Total Budget: FY 05 \$263 M
FY 06 est. \$260 M
FY 07 est. \$275 M

Contacts:

Bonnie Hogeds
Air Force Office of Scientific Research
110 Duncan Ave., Suite B115, Bolling AFB
Washington, DC 20332-4990
(703) 696-7554 (ph)
(703) 696-9556 (fax)

Program Website Address: Air Force Office
of Scientific Research,
<http://www.afosr.af.mil/>

Deadline: Proposals may be submitted in accordance with requirements of the Broad Agency Announcement, Program R&D Announcement (PRDA) or other solicitation notice in the Commerce Business Daily.

Application Procedures/Forms: Applicants should contact the appropriate research area prior to submitting a full proposal; to request a hard copy of the BAA, contact AFOSR/PI at (703) 696-9513. Applicants are encouraged to obtain the forms via AFOSR home page at <http://www.afosr.af.mil>

Approval/Disapproval Time: 60 to 90 days.

Application Results: N/A

Matching Requirements: Statutory formulas or matching requirements apply in some cases.

Evaluation Procedures: Awards decisions will be based on a competitive selection of proposals resulting from a peer and/or scientific review.

Examples: Projects focus upon the following research areas:

Aerospace sciences and engineering sciences:

Structural dynamics, mechanics of materials, particulate mechanics, propulsion diagnostics, space, power and propulsion, external aerodynamics and hypersonics, internal fluid dynamics;

Chemistry and materials sciences:

Chemistry and materials sciences, e.g., chemical reactivity and synthesis, polymer chemistry, inorganic materials chemistry, electrochemistry, theoretical chemistry, molecular dynamics, metallic structural materials, ceramics and nonmetallic structural materials;

Physics and electronics:



Federal Technology Funding Guide

2006

Components, and circuits, optoelectric information processing, devices and systems, quantum electronic solids, semiconductor and electromagnetic materials, photonic physics, optics, x-ray physics, atomic and molecular physics, plasma physics;

Life and Environmental Sciences:

Neuroscience, chronobiology, perception and recognition, spatial orientation, cognition, bioenvironmental sciences, optical and infrared environment, space sciences;

Mathematical and Computer Sciences:

Dynamics and control, physical mathematics and applied analysis, computational mathematics, optimization and discrete mathematics, signal processing, probability and statistics, software and systems, artificial intelligence, neural computation systems, and electromagnetic;

Notes: 90 percent of awards are granted to universities and academic institutions as a result of the Office's emphasis on basic research. However, projects that are basic but have an eye toward commercialization are viewed favorably.

The Air Force Office of Scientific Research has established a partnership in Research and Transitioning to encourage joint university/industry projects.

Program Marketing and Solicitation:

Broad Agency Announcement, Program R&D Announcement (PRDA), or other solicitation notices in the Commerce Business Daily.

Catalog of Federal Domestic Assistance:

12.800



Federal Technology Funding Guide

2006

Civil Engineering Program

Deadline: None

Federal Agency: Department of Defense, U.S. Army Corps of Engineers, Engineer R&D Center (ERDC). ERDC consists of seven unique laboratories: four in Vicksburg, MS, and one each in Hanover, NH, Champaign, IL, and Alexandria, VA.

Purpose: To conduct civil and environmental engineering R&D investigations in support of the civil works and missions of the Corps of Engineers.

Focus: R&D.

Award Range: \$5,000 to \$1,000,000

Award Average: \$80,000 to \$500,000

Total Budget: \$80 M each year

Contacts:

Sally East
Vicksburg Consolidated Contracting Office
U.S. Army Engineer District, Vicksburg
4155 Clay Street
Vicksburg, MS 39180
(601) 631-7259 (ph)
sally.e.east@mvk02.usace.army.mil

Mack Ross
Contracts
(601) 631-5338
mack.ross@mvk02.usace.army.mil

Program Website Address: U.S. Army Corps of Engineers Waterway Experiment Station, <http://www.wes.army.mil>

Deadline: None. Proposals are accepted year-round.

Application Procedures/Forms: For the application form, check out the Civil Engineering Program website, <http://www.mvk.usace.army.mil/contract> (Under “Other Opportunities,” click on “ERDC Broad Agency Announcement”).

Approval/Disapproval Time: 3 to 6 months.

Application Results: 115 to 130 proposals are received each year; approximately 55 percent of all proposals are funded.

Matching Requirements: None.

Evaluation Procedures: Internal review.

Examples: See notes below.

Notes: Projects are focused along the following laboratories for basic and applied, mission-oriented research:

Coastal and Hydraulics Laboratory (CHL): estuarine hydrodynamics, flood control hydraulics groundwater modeling, sediment transport, stream bank erosion. Coastal engineering, shore protection, restoration, dredging, field measurements, numerical modeling.

Geotechnical and Structures Laboratory (GSL): Engineering geology, geophysical engineering, pavements, soil and rock mechanisms, wheels and tracked vehicle mobility. Structural design and performance of structures, weapons effects, earth dynamics, and concrete and other construction materials.

Environmental Laboratory (EL): Aquatic plant control, archaeological site

Federal Technology Funding Guide

2006

preservation, hazardous and toxic waste site remediation, numerical waste quality modeling, wetlands delineation, wildlife management/mitigation.

Information Technology Laboratory (ITL):
Automation, visual information, and voice/data and radio communications.

Cold Regions Research and Engineering Laboratory (CRREL): Physical, mechanical, and chemical properties of snow and other forms of frozen precipitation, freshwater ice and sea ice, and perennially and seasonally frozen ground.

Construction Engineering Research Laboratories (CERL): Construction, operation, and maintenance of Army's infrastructures. Ensuring environmental quality and safety at reduced life-cycle costs for installations.

Program Marketing and Solicitation:
Commerce Business Daily, program website, networking at scientific and business conferences with academic and industry sources.

Federal Technology Funding Guide

2006

Defense Advanced Research Projects Agency (DARPA) Programs

Deadline: Varies

Federal Agency: Department of Defense,
Defense Advanced Research Projects
Agency.

Purpose: To support and stimulate basic
research, applied research and technology
development, which may have military or
dual-use application.

Focus: Innovative R&D for National
Security.

Award Range: \$100,000 to \$100 M
Award Average: Not available.
Total Budget: FY 02 \$2.26 B
FY 03 \$2.69 B
FY 04 \$2.95 B

Contacts:
R. Timothy Arnold
Defense Advanced Research Projects
Agency
Director, Contract Management Office
3701 N. Fairfax Drive
Arlington, VA 22203-1714
(703) 696-2399 (ph)
rarnold@darpa.mil

Program Website Address:
<http://www.darpa.mil>

Deadline: Varies; as specified in Broad
Agency Announcements in the Commerce
Business Daily.

Application Procedures/Forms:
Organizations should refer to DARPA's

homepage (<http://www.darpa.mil/baa/>) for
the latest solicitations and other information.

Approval/Disapproval Time: 60 to 120
days. Awards on high priority projects may
take less time.

Application Results: Varies within research
area.

Matching Requirements: As specified in
the Broad Agency Announcement.

Evaluation Procedures: Award decisions
are based upon competitive selection of
proposals resulting from a scientific and
technical review.

Examples: Technologies and systems for
early entry; rapid reaction forces;
communications technologies/systems;
maritime technology; biological warfare
defense; information assurance
technologies; planning and logistics and
asymmetric threat technologies/systems;
networking, embedded and autonomous
computing; user interfaces and translation;
software composition; electronics; and
photonics.

Notes: R&D activities pursued by DARPA
are funded under 3 R&D categories:

R&D Category 6.1 (Basic Research)
Provide for all efforts of scientific study and
experimentation directed toward increasing
knowledge and understanding in those fields
of the physical, engineering, environmental,
and life sciences, related to long-term
national security needs.

R&D Category 6.2 (Applied Research)



Federal Technology Funding Guide

2006

Provide for all efforts directed toward the solution of specific military problems, short of major development projects.

R&D Category 6.3 (Advanced Technology Development)

Provide for all efforts directed toward projects that have evolved into the development of hardware or software for testing.

Research Areas: Check DARPA website for updates on various research area programs.

Program Marketing and Solicitation:
BAAs in Commerce Business Daily.

Federal Technology Funding Guide

2006

Military Medical Research and Development Program

Deadline: Various

Federal Agency: Department of Defense, U.S. Army Medical Research and Materiel Command (MRMC).

Purpose: To reduce illness and injury among U.S. military personnel on the battlefield through basic and applied medical research executed largely through grants and contracts with civilian educational and research institutions.

Focus: R&D.

Award Range: \$100,000 to \$5.0 M
Award Average: \$650,000
Total Budget: FY 05 \$137,380,000;
FY 06 est. \$56.5 M;
FY 07 est. \$140 M

Contacts:
Lisa Zimmerman
U.S. Army Medical Research and
Acquisitions Activity
Fort Detrick
Frederick, Maryland 21702-5014
Lisa.zimmerman@amedd.army.mil

Program Website Address:
U.S. Army Medical Research Acquisition
Activity, <http://www.usamraa.army.mil/>

Deadline: Varies.

Application Procedures/Forms: The BAA, which contains all information and forms, may be obtained by request in writing from U.S. Army Medical Research and Material

Command, ATTN: MCMR-ACQ-BA, Fort Detrick, Frederick, MD 21702-5012.

Informal pre-proposals (3-4 pages) are strongly recommended to explore the division's research in potential projects. Questions concerning the preparation of preproposals or proposals can be emailed (Q&A.BAA@DET.AMEDD.ARMY.MIL) or faxed (301/619-2937) to USAMRAA.

Approval/Disapproval Time: 60 to 120 days for pre-proposal review. Formal proposals take approximately 6 months.

Application Results: N/A

Matching Requirements: None.

Evaluation Procedures: Proposals are evaluated by in-house committee or by a combination of in-house and extramural review committees against the following factors: Military and program relevance; research objective; scientific feasibility; qualifications; facilities; and budget.

Examples: Characterization and utilization of opioid-like hibernation factors; analysis of investigational drugs in biological fluids, method development and routine assay, studies of Altered Response to Infection Induced by Severe Injury, and mechanisms of Cutaneous Vesication.

Notes: Summaries are published annually in the Commerce Business Daily. The MRMC will fund the following research areas: military infectious disease; human immunodeficiency virus (HIV); medical biological defense research program; medical chemical defense; combat casualty

Federal Technology Funding Guide 2006

care; telemedicine and advanced technology;
and military operational medicine.

Program Marketing and Solicitation:

BAA in the Commerce Business Daily or
from the agency website.

Catalog of Federal Domestic Assistance:

12.420

Federal Technology Funding Guide

2006

Research and Technology Development Program

Deadline: Varies

Federal Agency: Department of Defense, Defense Advanced Research Projects Agency.

Purpose: To support and stimulate basic research, applied research and technology development at educational institutions, nonprofit organizations, and commercial firms, which may have military or dual-use application.

Focus: Alternative product use, R&D, some commercialization.

Award Range: \$100,000 to \$100 M
Award Average: \$1.15 M
Total Budget: FY 05 \$50 M;
FY 06 est. \$50 M

Contacts:
Defense Advanced Research Projects
Agency
Director, Contract Management Office
3701 N. Fairfax Drive
Arlington, VA 22203
(703) 696-2399 (ph)

Program Website Address:
<http://www.darpa.mil/cmo>

Deadline: Deadlines are specified by the various Broad Agency Announcements.

Application Procedures/Forms: Eligible organizations may submit proposals or white papers in response to relevant Broad Agency Announcements published in the Federal

Business Opportunities
(www.fedbizopps.gov-- look for DARPA under other Defense Agency).

Approval/Disapproval Time: 60 to 120 days. Awards on high priority projects generally would take less time.

Application Results: In FY 2002, approximately 30 grants were awarded.

Matching Requirements: All cooperative agreements require a minimum 50 percent cost-share.

Evaluation Procedures: Award decisions are based upon competitive selection of specific project proposals resulting from a scientific review. Evaluators use the evaluation criteria contained in the relevant Broad Agency Announcement.

Examples: Biosensors Technology; Electromagnetic material Technology; Silicon nanofabrication and nanoelectronics device manufacturing; High bandgap materials and devices; Advanced Lithography; Simulation based design; Power systems for land vehicles; and Wireless communications devices

Notes: For-profits are eligible to participate in cooperative agreements; they cannot receive grants through this funding mechanism.

Program Marketing and Solicitation: BAA in Commerce Business Daily, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance: 12.910

Federal Technology Funding Guide

2006

Space Vehicles Program

Deadline: None

Federal Agency: Department of Defense, Air Force Research Laboratory, Space Vehicles Directorate, Battlespace Environment Division, Hanscom AFB MA.

Purpose: To conduct research in space physics, ionospheric physics, optical/infrared physics, and atmospheric sciences.

Focus: Basic research.

Award Range: \$100,000 to \$5.0 M
Award Average: \$500,000
Total Budget: Around \$25 M each year

Contact and Contracts Questions:
Paulette Windley, Procurement Contracting Officer
AFRL/VSOE
3550 Aberdeen Ave. SE
Kirtland AFB, NM 87117-5776
(505) 846-5011 (ph)
(505) 846-9666 (fax)
paulette.windley@kirtland.af.mil

Gail Hamblet
(505) 846-6923 (ph)
(505) 846-6022 (fax)
gail.hamblet@kirtland.af.mil

Program Website Address: Battlespace Environment Division (AFRL/VSB),
<http://www.vs.af.mil/Division/>

Deadline: None.

Application Procedures/Forms: Interested offerors may view and download the AFRL Broad Agency Announcement (BAA VS-01-01) topic areas with technical points of contact, proposal preparation instructions, etc., by accessing <http://www.eps.gov>, USAF, AF Material Command, Space Vehicles Directorate.

Approval/Disapproval Time: 90 days

Evaluation Procedures: Peer review. Proposals will be evaluated on technical merits, potential contribution to the laboratory's mission, cost feasibility, and fund availability by the AFRL/VS (East) technical staff.

Examples: N/A

Notes: Contact scientists in area of research listed in the BAA brochure. Research proposals are reviewed in the following areas: analysis of geophysical parameter measurements; ionospheric impact on air force systems; optical/infrared systems technology; space effects on air force systems; and weather impact on air force missions.

HANSCOM TECHNICAL AREAS: Proposals are desired in all facets of mitigating and exploiting environmental impacts on space and missile systems. Proposals, which either enable future space systems to meet performance, reliability, maintainability, supportability and affordability goals, or which enhance performance or significantly reduce cost, schedule, or risk of existing technologies, are of particular interest specifically.

Federal Technology Funding Guide 2006

Program Marketing and Solicitation: BAA
in Commerce Business Daily.

Federal Technology Funding Guide

2006

U.S. Display Consortium Program

Deadline: Varies

Federal Agency: Department of Defense, Defense Advanced Research Projects Agency

Purpose: To develop the equipment and materials infrastructure to promote a globally competitive flat panel display manufacturing industry.

Focus: Commercialization.

Award Range: \$100,000 to \$3.0 M

Award Average: \$1.0 M

Total Budget: FY 03 \$10.0 M
FY 04 est. \$12.0 M
FY 05 est. N/A

Contacts:

Dr. M. Robert Pinnel
Chief Technical Officer
60 S. Market Street, Suite 480
San Jose, CA 95113
(408) 277-2400 (ph)
(408) 277-2490 (fax)
mrpinnel@usdc.org

Program Website Address: U.S. Display Consortium, <http://www.usdc.org/>

Deadline: Deadlines vary according to project; solicitations occur throughout the year. 10-15 weeks is the typical response time for submission after issuance of the solicitation.

Application Procedures/Forms: No forms; respond to solicitation with full proposal;

details outlined in solicitation available from contact.

Approval/Disapproval Time:

Approximately 8 weeks following submission of proposal.

Application Results: For past solicitations, approximately 3-10 applicants respond; generally one winner is chosen per solicitation, although high-risk, high-reward projects may result in more than one winner.

Matching Requirements: A 50-50 cost-share is required, although there is some flexibility.

Evaluation Procedures: A panel of technical experts from the Display Consortium member companies evaluates the proposals.

Examples: Projects include: dry strip organic films, deposition for OLED displays, microdisplay T & I, OLED encapsulation materials and processes, projection display optical components, low cost printing, laser light sources, dry cleaning technology and web-based processing technology and tools.

Notes: This program is limited to Flat Panel Display manufacturing, materials development, and commercialization projects associated with the industry.

Marketing and Solicitation Publications: U.S. Display Consortium issues requests for proposals and an annual open solicitation, generally opening in December and closing by the end of January. Mailings are sent to members of the USDC Sustaining Division

Federal Technology Funding Guide 2006

and proposal opportunities are posted on the USDC website.

Department of Energy

The Department of Energy focuses on maintaining secure energy resources for the nation. As part of this mission, it funds long-term, high-risk R&D of energy technology, including energy conservation, renewable energy, and fossil fuel resources.

Four Major Offices Fund R&D:

The Office of Energy Efficiency and Renewable Energy (EERE) funds research related to conservation, alternative energy sources for mobile and stationary applications, and other technologies that reduce energy consumption and pollution. EERE sponsors unsolicited proposals and issues separate solicitations. The following EERE programs are listed in this guide:

- Conservation R&D
- Inventions and Innovations Program (formerly the Energy Related Inventions and Innovative Concepts Programs)
- National Industrial Competitiveness through Energy, Environment and Economics Program
- Regional Biomass Energy Program
- Cooperative Automotive Research for Advanced Technology Program

The Office of Energy Research primarily funds basic research in energy-related sciences, ranging from fusion energy, health and environmental studies, materials science, nuclear physics, and computational and technology research. Its Financial Assistance Program is included here.

The Office of Environmental Management funds projects related to disposal, removal and amelioration of hazardous waste; its general program, the Environmental Management Science Program is included here.

The Office of Fossil Energy funds projects that lead to environmentally friendly and secure fossil energy sources. Its general program, the Fossil Energy R&D Program is listed here. This program, in addition to many unsolicited proposals, is directed by the Federal Energy Technology Center (FETC).

For general information, contact:

U.S. Department of Energy, Headquarters
1000 Independence Avenue, S.W.
Washington, DC 20585
(202) 586-5575 (ph)
www.doe.gov

Federal Technology Funding Guide

2006

Conservation Research and Development

Deadline: None

Federal Agency: Department of Energy, Office of Energy Efficiency and Renewable Energy.

Purpose: To conduct a balanced, long-term research effort in the areas of buildings, industry, freedomCAR and vehicle technologies and hydrogen, fuel cells and infrastructure. Grants will be offered to develop and transfer various energy conservation technologies to the nonfederal sector.

Focus: Basic research.

Award Range: \$50,000 to \$500,000
Award Average: \$200,000
Total Budget: FY 05 \$85,676,114
FY 06 est. \$89,000,000
FY 07 est. \$90,000,000

Contacts:
Energy Efficiency and Renewable Energy
Program Offices:

Office of Building Technologies Program
Michael J. McCabe, (202) 586-9155
michael.mccabe@ee.doe.gov

Office of Industrial Technologies
Buddy Garland, (202) 586-7547
buddy.garland@ee.doe.gov

FreedomCAR and Vehicle Technologies
Ed Wall, (202) 586-7409
Ed.Wall@hq.doe.gov

Hydrogen, Fuel Cells and Infrastructure
Steve Chalk, (202) 586-3388
steven.chalk@ee.doe.gov

Program Website Address:
<http://www.eere.energy.gov/>

Deadline: None.

Application Procedures/Forms: The application forms must be downloaded from the specific funding opportunity announcement posted on the grants.gov website at <http://www.grants.gov>

Approval/Disapproval Time: 60 to 120 days

Application Results: Numerous awards for ongoing R&D projects are made.

Matching Requirements: This program has no statutory formula, although cost-sharing is encouraged.

Evaluation Procedures: Selection will be based on an objective merit review, program policy factors, the availability of funds, provisions of the appropriation and as otherwise specified in specific solicitation documents.

Examples: Research on high performance heat pumps; thermally efficient commercial buildings; vehicle engines; high temperature materials; and industrial separation processes.

Notes: Unsolicited proposals are considered for projects that demonstrate a unique/ innovative concept and that offer services not currently available to the federal government; they also should not resemble any project considered for competitive operations. In general, the Department will fully fund early stage research but more applied research will require matching funds.

Federal Technology Funding Guide 2006

Program Marketing and Solicitation: Agency website, Commerce Business Daily, Federal Register, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
81.086

Federal Technology Funding Guide

2006

Cooperative Automotive Research for Advanced Technology (CARAT) Program

Deadline: None

Federal Agency: Department of Energy, Energy Efficiency and Renewable Energy Network, Office of Transportation Technologies, Office of Advanced Automotive Technologies.

Purpose: To research, develop, and validate advanced automotive technologies that will enable the production of highly efficient, low-emission, and fuel-flexible vehicles.

Focus: Commercialization.

Award Range: Up to \$150,000.
Award Average: \$150,000
Total Budget: FY 02 \$1 M
FY 03 \$500,000
FY 04 N/A

Contacts:

David Hamilton
U.S. Department of Energy, EE32
1000 Independence Ave. SW
Forrestal Building, Rm SG-023
Washington, DC 20585
(202) 586-2314 (ph)
david.hamilton@ee.doe.gov

Program Website Address: CARAT,
<http://www.ipd.anl.gov/carat>

Deadline: None. Check the program home page for the latest news and deadlines for FY 04.

Application Procedures/Forms: Full application information, including forms, will

be posted on the program website at <http://www.ipd.anl.gov/carat/> once program opens. Forms only available in the online solicitation package.

Approval/Disapproval Time: 3 to 4 months.

Application Results: N/A

Matching Requirements: Cost-sharing by awardees ranges from 0 to 50% depending on the phase of program. Cost matching by Phase I awardees is 20% with maximum federal share of \$150,000. Cost matching in Phase II is 20% with maximum federal share of \$750,000. Cost matching by Phase 3 awardees is at least 50%.

Evaluation Procedures: Internal and external technical review.

Examples: Results will be provided on the CARAT website as soon as they become available.

Notes: Annual solicitations will be conducted on specific research topics. Check the annual solicitations for research topics of current year.

The CARAT Program's overall objective is to develop advanced technologies for light-vehicle applications that meet the automotive industry's technical and cost requirements.

Program Marketing and Solicitation: Agency website, Federal Register, and Commerce Business Daily.



Federal Technology Funding Guide

2006

Defense Nuclear Nonproliferation Research

Deadline: None

Federal Agency: Nuclear Security Administration, Department of Energy

Purpose: To conduct basic and applied R&D that enhances U.S. national security and reduces the global danger from the proliferation of weapons of mass destruction. The emphasis is on developing the requisite technologies to detect and deter nuclear proliferation, and to meet U.S. nuclear explosion monitoring goals. Research focuses on advanced detection systems and concepts to support current and future USG policies.

Focus: R&D.

Award Range: \$100,000 to \$250,000

Award Average: N/A

Total Budget: FY 03 \$4 M

FY 04 \$11 M

FY 05 est. \$11 M

Contacts:

Michael O'Connell
Office of Nonproliferation Research and Engineering (NN-20)
Office of Defense Nuclear Nonproliferation
NNSA, Department of Energy
Washington, DC 20585
(202) 586-2400 (ph)

Program Website Address:

<http://www.nnsa.doe.gov/na-20>

Deadline: None

Application Procedures/Forms: Unsolicited proposals and formal application by a scientist

or principal investigator who will conduct or lead the research team should be submitted to the NNSA Headquarters Office. Proposals should be submitted to: Office of Nonproliferation Research and Engineering (NA-22), Office of Defense Nuclear Nonproliferation, NNSA, Department of Energy, Washington, DC 20585. (202) 586 - 5751

Approval/Disapproval Time: 60 to 90 days

Matching Requirements: There is no mandatory cost-sharing requirement.

Evaluation Procedures: The selection process will be determined by potential impact and relevance of proposed work, technical merit, qualifications of the proposed investigators, quality of the proposed research plan and the proposed schedule, budget and available resources.

Examples: Hyperspectral data analysis techniques for airborne detection systems; improving cadmium zinc telluride as a nuclear detector; investigating signal classification algorithms for advanced field deployable gate array and digital signal processing chips; and seismic research to improve detection, location, and discrimination of nuclear explosions.

Notes: None

Catalog of Federal Domestic Assistance: 81.113

Federal Technology Funding Guide

2006

Environmental Management Science Program

Deadline: January or April

Federal Agency: Department of Energy, Office of Environmental Management (EM), Office of Science and Technology (OST)

Purpose: To provide scientific knowledge that will revolutionize technologies and cleanup approaches to significantly reduce future costs, schedules, and risks.

Focus: R&D.

Award Range: \$5,000 to \$4 M
Award Average: Not available.
Total Budget: FY 02 \$40.0 M
FY 03 \$30.0 M
FY 04 est. \$30.0 M

Contacts:

Mr. Mark Gilbertson
Office of Environmental Management
U.S. Department of Energy
1000 Independence Ave. SW
Washington, DC 20585
(202) 586-5042 (ph)
(202) 586-4314 (fax)
mark.gilbertson@em.doe.gov

Dr. Roland F. Hirsch
Medical Sciences Division
Office of Biological & Environmental Research
SC-73/Germantown Building
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, D.C. 20585
(301) 903-9009 (ph)
(301) 903-0567 (fax)
roland.hirsch@science.doe.gov

Program Website Address: Environmental Management Science Program,
<http://emsp.em.doe.gov> and
<http://www.em.doe.gov>

Deadline: Usually January for pre-applications and April for full proposals. More than one solicitation may be issued per year.

Application Procedures/Forms: Follow instruction in Application Guide and in solicitation.

Approval/Disapproval Time: 2 – 12 months.

Application Results: N/A

Matching Requirements: None.

Evaluation Procedures: Office of Science external merit review procedures are followed (see <http://www.er.doe.gov/production/grants/merit.html>). Scientifically meritorious applications are then evaluated for program relevance.

Examples: N/A

Notes: Program focuses on basic science and relevancy to DOE cleanup problems.

Program Marketing and Solicitation: Federal Register and Agency website.

Catalog of Federal Domestic Assistance:
81.104



Federal Technology Funding Guide

2006

Fossil Energy Research and Development Program

Deadline: None

Federal Agency: Department of Energy, Office of Fossil Energy.

Purpose: To promote the development and use of environmentally and economically superior technologies for supply, conversion, delivery, utilization and reliability constraints of producing and using fossil fuels.

Focus: R&D, some commercialization.

Award Range: \$20,000 to \$65 M
Award Average: N/A
Total Budget: FY 05 \$235 M
FY 06 est. \$2215 M
FY 07 est. \$200 M

Contacts:

John Augustine
National Energy Technology Laboratory
P.O. Box 10940, Mail Stop 921-107
626 Cochran Mill Road
Pittsburgh, PA 15236-0940
(412) 386-4524

John.Augustine@netl.doe.gov

Mary J. Roland
Dept. of Energy, Fossil Energy Program,
19901 Germantown Road, Mail Stop FE-3
Germantown, MD 20874.
(301) 903-3514.

Program Website Address: Fossil Energy
R&D, <http://www.netl.doe.gov>

Deadline: None for unsolicited proposals. For others the deadline is stated in the solicitation posted at <http://www.grants.gov/>

Application Procedures: The application forms must be downloaded from the specific funding opportunity announcement posted on the Grants.gov website: <http://www.grants.gov/>. Unsolicited proposals should be submitted in accordance with the instructions posted at the following website:
<http://www.netl.doe.gov/business/usp/USPGuide022604.pdf>.

Approval/Disapproval Time: 90 to 180 days.

Application Results: N/A

Matching Requirements: Varies with each grant/cooperative agreement. Cost-sharing is highly encouraged due to planned budget reductions.

Evaluation Procedures: Selection process is based on technical merit, priority of technical work relating to proposal, relevance to current program objectives, cost-benefit judgement, and amount of cost-sharing by potential awardee.

Examples: Improved oil recovery from upper jurass IC smackover; sonication remediation methodology; development and testing of a pre-prototype mach 2 ramagen engine; kinetics of direct oxidation of H₂S in coal gas to elemental sulfur.

Notes: Coordination with program staff is advisable for unsolicited proposals.

Program Marketing and Solicitation: Agency website, Commerce Business Daily, "Guide to

Federal Technology Funding Guide 2006

Unsolicited Proposals,” Catalog of Federal
Domestic Assistance.

Catalog of Federal Domestic Assistance:
81.089

Federal Technology Funding Guide

2006

Inventions and Innovation Program

Deadline: Varies.

Federal Agency: Department of Energy, Office of Energy Efficiency and Renewable Energy

Purpose: To encourage the development and commercialization of energy-saving inventions by providing financial and technical assistance to projects that have a potential for significant energy savings and future commercialization markets through a competitive solicitation process.

Focus: Varies from conceptual ideas to developed prototypes.

Award Range: Not available.
Award Average: \$150,000
Total Budget: FY 05 \$16,340,693
FY 06 est. \$17.6 M
FY 07 est. \$18 M

Contacts:
Lisa Barnett
Weatherization and Intergovernmental Program
Department of Energy, EE-2K
1000 Independence Avenue, SW
Washington, DC 20585
(202) 586-2212 (ph) or (877) 337-3463
(202) 586-1506 (fax)
lisa.barnett@ee.doe.gov

Program Website Address: Inventions and Innovation Program (I&I):
<http://www.eere.energy.gov/inventions/>

Deadline: Applications are due on the date and time specified in the program solicitations.

Application Procedures/Forms: The details of the solicitation are posted on the Inventions and Innovations homepage. Only proposals prepared in response to the details contained in the annual competitive solicitation will be accepted. The application forms must be downloaded from the specific funding opportunity announcement posted on the grants.gov website at <http://www.grants.gov/>

Approval/Disapproval Time: 90 to 120 days.

Application Results: Since the start of the program in 1977, more than 500 inventions have received financial support from DOE, with nearly 25 percent reaching the marketplace.

Matching Requirements: Not required, although cost-sharing is encouraged. The level of cost-sharing is one of the programmatic selection considerations used by the selection official.

Evaluation Procedures: Review by program and technical personnel based on uniqueness, technical feasibility, marketability, and energy relationship.

Examples: Powering cell phones with fuel cells running on renewable fuels; ship-borne emergency oil containment system and method; high-intensity silicon vertical multi-junction solar cells; and fuel gas generation from biomass via ACR.

Notes: Small businesses and individual inventors are especially invited to participate in this program. In addition to financial assistance, it offers technical guidance and commercialization support to successful applicants.

Federal Technology Funding Guide

2006

Key criteria include technical feasibility and innovation, commercialization, potential energy savings, statement of work, and applicant capabilities. The assistance provided includes evaluation of energy-related concepts, limited funding assistance, and where appropriate, advice concerning engineering, marketing, and business planning. Grantee may petition for waiver of government patent rights.

The grant assistance is provided on two levels. In stage one, technologies in early-stage development are eligible for up to \$50,000 of funding for a period of up to one year. Stage two provides a maximum of \$250,000 for technologies approaching the point of prototype and a funding period of up to two years.

Program Marketing and Solicitation: A copy of the solicitation may be obtained at <http://www.eere.energy.gov/inventions/> during the open period of the solicitation. Also in the Commerce Business Daily and the Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
81.036

Federal Technology Funding Guide

2006

Office of Science Financial Assistance Program

Deadline: None

Federal Agency: Department of Energy, Office of Science

Purpose: To provide financial support for fundamental research in the basic sciences and advanced technology concepts and assessments in fields related to energy.

Focus: Basic research.

Award Range: \$10,000 to \$2.0 M

Award Average: \$200,000

Total Budget: FY 05 \$830 M
FY 06 est. \$830 M
FY 07 est. \$830 M

Contacts:

Martin R. Rubinstein
Office of Science, SC-64, DOE
19901 Germantown Road
Germantown, MD 20874-1290
(301) 903-5212 (ph)
(301) 903-4194 (fax)

Martin.Rubinstein@science.doe.gov

Deadline: Applications may be submitted at any time. Specific grant solicitation notices, issued from time to time, usually contain due dates.

Program Website Address: Financial Assistance Program,
<http://www.science.doe.gov/production/grants/grants.html>

Grants and Contracts,

<http://www.er.doe.gov/production/grants/grants.html>

Application Procedures/Forms: The application forms must be downloaded from the specific funding opportunity announcement at the grant.gov website:
<http://www.grants.gov/>

Approval/Disapproval Time: 6 to 12 months.

Application Results: Approximately one in four proposals receive funding.

Matching Requirements: Usually cost-sharing is encouraged but not required. In some cases, however, cost-sharing may be required by specific grant solicitations.

Evaluation Procedures: Decisions are made by a Headquarters program official for scientific and/or technical merit of the project; appropriateness of the proposed method or approach; competency of the applicant's personnel; and the adequacy of proposed resources. DOE Operations offices will then negotiate and prepare an appropriate award document.

Examples: Not available.

Notes: Because this program focuses on basic research, very few grants are awarded to businesses.

Program Marketing and Solicitation: Federal Register, scientific conferences, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance: 81.049

Federal Technology Funding Guide

2006

Renewable Energy Research and Development Program

Peter Goldman, (202) 586-5348
peter.goldman@hq.doe.gov

Deadline: None

Federal Agency: Department of Energy, Office of Energy Efficiency and Renewable Energy

Purpose: To conduct balanced research and development efforts in the following energy technologies: solar, distributed energy and electric reliability, biomass, hydrogen, fuel cells and infrastructure, wind and hydropower, hydrogen, and geothermal.

Focus: R&D.

Award Range: \$50,000 to \$1 M
Award Average: Not available.
Total Budget: FY 05 \$217,047,938
FY 06 est. \$219 M
FY 07 est. \$220 M

Program Contacts:

Biomass Program:
Douglas Kaempf, (202) 586-5264
douglas.kaempf@ee.doe.gov

Geothermal Technologies Program:
Roy Mink, (202) 586-5463
roy.mink@hq.doe.gov

Hydrogen, Fuel Cells & Infrastructure
Technologies Program:
Steven Chalk, (202) 586-3388
steven.chalk@ee.doe.gov

Solar Energy Technologies Program:
Ray Sutula, (202) 586-8064
Raymond.Sutula@hq.doe.gov

Wind and Hydropower Technologies Program:

Program Website Address: Office of Energy Efficiency and Renewable Energy,
<http://www.eere.doe.gov>

Deadline: None.

Application Procedures/Forms: Most awards are made in response to solicitations announced on the website, in the Federal Register, or in the Commerce Business Daily. Unsolicited proposals are to be submitted in accordance with DOE's "[Guide for the Submission of Unsolicited Proposals](#)."

Note: this is a PDF file.

Approval/Disapproval Time: 60 to 180 days.

Application Results: N/A

Matching Requirements: This program has no statutory formula, but cost-sharing is encouraged.

Evaluation Procedures: Evaluations will be conducted according to the procedures for objective merit review of discretionary financial assistance applications as published in the Federal Register. Selection will be based on an objective merit review, program policy factors, and the availability of funds.

Examples: The American Institute of Architects Foundation – Determination of solar building technology R&D needs.

Program Marketing and Solicitation: Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance: 81.087



Federal Technology Funding Guide

2006

Stewardship Science Grant Program

Deadline: Varies

Federal Agency: National Nuclear Security Administration, Department of Energy

Purpose: (1) To grow the U.S. scientific community through university involvement in areas of fundamental science and technology relevant to stockpile stewardship; (2) to promote and sustain scientific interactions between the academic community and scientists at the NNSA laboratories; (3) to train scientists in specific areas of long-term research relevant to stockpile stewardship; and (4) to complement the NNSA Advanced Simulation and Computing Academic Strategic Alliances Program by emphasizing primarily experimental research in forefront scientific areas aligned with the NNSA mission needs.

Focus: Basic research.

Award Range: \$100,000 to \$2.0 M

Award Average: \$380,000

Total Budget: FY 05 \$14,751,247
FY 06 est. \$14 M
FY 07 est. \$14 M

Contacts:

Robert Hanrahan
Office of Defense Science
NA-113/Forrestal
1000 Independence Ave
Washington, D.C. 20585
(202) 586-4606 (ph)
(202) 586-8005 (fax)

robert.hanrahan@nnsa.doe.gov

Program Website Address: Secondaries and Inertial Fusion Division,
<http://www.nnsa.doe.gov/ssaa/>

Deadline: Deadlines stated in the solicitations.

Application Procedures/Forms: Proposals should be submitted as specified in the funding opportunity announcement posted at <http://www.grants.gov/>

Approval/Disapproval Time: 90 to 180 days.

Application Results: N/A

Matching Requirements: None.

Evaluation Procedures: Proposals will be screened for stockpile stewardship relevance and then reviewed for scientific and technical merit by qualified individuals.

Examples: Study of pulsed-power driven high energy density plasmas; electron interactions in actinides and related systems under extreme conditions; dense plasma studies with ultra-bright soft X-ray probes; and measurement of neutron-induced reaction cross-sections.

Program Marketing and Solicitation: Agency website, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance: 81.112

Federal Technology Funding Guide

2006

Department of Health and Human Services

The Department of Health and Human Services has eight public health service organizations, including the three in this Guide: the Food and Drug Administration (FDA), the Centers for Disease Control and Prevention (CDC), and the National Institutes of Health (NIH).

The FDA is a consumer agency that is primarily responsible for ensuring that foods, drugs, and cosmetics are free from contamination. The Administration runs one regularly scheduled program (Orphan Products Development) that funds drugs that cure rare diseases.

The CDC's goal is to promote health and quality of life by preventing and controlling disease, injury, and disability. This guide lists the basic research grant program available under the National Institute for Occupational Safety and Health in the CDC, but there is a variety of solicitations, including control of communicable and non-communicable diseases such as AIDS/HIV, prevention efforts such as immunization and injury prevention, and environmental health. Check the CDC's Funding Opportunities website at <http://www.cdc.gov/od/pgo/funding/grantmain.htm> for more information.

The NIH, which is the federal government's largest grant-making authority, seeks to improve the nation's health by increasing knowledge related to health and disease. It has a proposed FY05 operating budget of \$28.8 billion and is composed of 27 distinct institutes, centers, and divisions. Interested biomedical applicants may submit proposals to the NIH's Center for Scientific Review, which will be triaged to the appropriate institute. NIH also issues "Requests for Applications" or RFAs, which are solicitations that organizations can respond to. Check the NIH's Funding Opportunities websites at <http://www.nih.gov/grants/guide/index.html> for more information.

Grants for health-related research make up the largest category of funding provided by the NIH. While few for-profit enterprises win NIH grants (80 percent are channeled to universities and the remaining 20 percent go to private industry), the following applicable NIH programs have been included in recognition of the potential for product/technology commercialization resulting from NIH research. These programs have been listed together in shortened format.

For more information on the NIH, contact:

National Institutes of Health
Building 1
1 Center Drive
Bethesda, MD 20892
Phone: (301) 496-4000

Federal Technology Funding Guide

2006

Biomedical Imaging Research

Deadline: Varies

Federal Agency: NIH, Department of Health and Human Services

Purpose: To support hypothesis, design, technology, or device-driven research relative to the discovery, design, development, translation and assessment of technologies in biomedical imaging.

Focus: R&D.

Award Range: \$5,000 to \$2.12 M
Award Average: \$408,211
Total Budget: FY 02 \$972,000
FY 03 \$111.7 M
FY 04 est. \$278.3 M

Contacts:

Program Contact:
William Heetderks, MD, PhD
National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health
6707 Democracy Blvd., Suite 200
Bethesda, MD 20892
(301) 451-4772 (ph)
(301) 480-1614 (fax)

Business Contact:
Chris Hollingsworth
National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health
6707 Democracy Blvd., Suite 202
Bethesda, MD 20892
(301) 451-6768 (ph)
(301) 480-4515 (fax)

Program Website Address:
<http://www.nibib1.nih.gov/>

Deadline: Varies.

Application Procedures/Forms: All applications for research or training are reviewed for scientific merit by an appropriate initial review group and then by a national advisory council. All applications favorably recommended compete for available funds on the basis of scientific merit and program emphasis. All accepted SBIR/STTR applications are evaluated for scientific and technical merit by an appropriate scientific peer review panel and by a national advisory council or board. All applications receiving a priority score compete for available SBIR/STTR set-aside funds on the basis of scientific and technical merit and commercial potential of the proposed research, program relevance, and program balance among the areas of research.

Approval/Disapproval Time: Research Grants: From 6 to 9 months. NRSAs: From 6 to 9 months. SBIR/STTR: About 7-1/2 months.

Application Results: N/A

Matching Requirements: N/A

Evaluation Procedures: Check website for further details.

Examples: Physics of ultrasound contrast agents; high-resolution gamma camera; statistical methods for image reconstruction in ECT; and non-invasive monitoring of NPC C progression and therapy.

Notes: None

Catalog of Federal Domestic Assistance:
93.286



Federal Technology Funding Guide

2006

Bioengineering Research

Deadline: Varies

Federal Agency: NIH, Department of Health and Human Services

Purpose: To support hypothesis, design, technology, or device-driven research relation to the discovery, design, development, translation and assessment of technologies in bioengineering.

Focus: R&D.

Award Range: \$5,000 to \$2.12 M
Award Average: \$225,876
Total Budget: FY 02 \$5,000
FY 03 \$20.1 M
FY 04 est. \$30.1 M

Contacts:

Program Contact
Tinera Fobbs

National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health
6707 Democracy Blvd, Suite 202
Bethesda, MD 20892
(301) 451-4776 (ph)
(301) 480-4973 (fax)

Business Contact

Chris Hollingsworth
National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health
6707 Democracy Blvd., Suite 202
Bethesda, MD 20892
(301) 451-6768 (ph)
(301) 480-4515 (fax)

Program Website Address:

<http://www.nibib1.nih.gov>

Deadline: Varies.

Application Procedures/Forms: All applications for research or training are reviewed for scientific merit by an appropriate initial review group and then by a national advisory council. All applications favorably recommended compete for available funds on the basis of scientific merit and program emphasis. All accepted SBIR/STTR applications are evaluated for scientific and technical merit by an appropriate scientific peer review panel and by a national advisory council or board. All applications receiving a priority score compete for available SBIR/STTR set-aside funds on the basis of scientific and technical merit and commercial potential of the proposed research, program relevance, and program balance among the areas of research.

Approval/Disapproval Time: Research Grants: From 6 to 9 months. NRSAs: From 6 to 9 months. SBIR/STTR: About 7-1/2 months.

Application Results: N/A

Matching Requirements: N/A

Evaluation Procedures: Check website for further details.

Examples: Exploration of nanoparticle optical biosensor arrays; origin of cells that repopulate resorbable ECM scaffolds; multiphoton biomedical nanofabrication; thermally targeted drug delivery by elastin biopolymers; and uropathogen detection using DNA biosensors.

Notes: None

Catalog of Federal Domestic Assistance: 93.286



Federal Technology Funding Guide 2006

Federal Technology Funding Guide

2006

Injury Prevention and Control Research Program

Deadline: Varies

NIH Division: Injury Control Research Center,
Centers for Disease Control and Prevention

Purpose: To support injury control research on
priority issues, To integrate aspects of
engineering, public health, behavioral sciences,
medicine, engineering, health policy and other
disciplines in order to prevent and control
injuries more effectively.

Focus: R&D, some commercialization.

Award Range: Varies
Award Average: Varies
Total Budget: FY 05 \$107,462,522
FY 06 est. \$105,833,480
FY 07 est. \$105 M

Program Contact:

Tom Voglesonger (Individual Research Grants)
Injury Prevention and Control Center for
Disease Control and Prevention
477 Beford HWY NE
Atlanta, GA 30341-3724
(770) 488-4823 (ph)
(770) 488-1662 (fax)
thomas.voglesonger@cdc.hhs.gov

Benjamin Moor
Community-Based Grant Programs
(770) 488-4710 (ph)
(770) 488-1286 (fax)
benjamin.moore@cdc.hhs.gov

Grants Management Office Contact:
Center for Disease Control & Prevention
Department of Health & Human Services

2920 Brandywine RD, Suite 3000
Atlanta, GA 30341
Cheryl Maddux, Grants Mgmt Officer
(770) 488-2645 (ph)
(770) 488-2670 (fax)
cheryl.maddux@cdc.hhs.gov

Program Website Address: <http://www.cdc.gov>

Deadline: Contact office for details.

Application Procedures/Forms: Applications
must be prepared using the most current PHS
398 research grant application instructions and
forms. Applications must have a Dun &
Bradstreet (D&B) Data Universal Numbering
System number as the universal identifier when
applying for Federal grants or cooperative
agreements. The D&B number can be obtained
by calling (866) 705-5711 or through the web site
at <http://www.dnb.com/us/>. The D&B number
should be entered on line 11 of the face page of
the PHS 398 form. The PHS 398 application
instructions are available online at
[http://grants.nih.gov/grants/funding/p
hs398.html](http://grants.nih.gov/grants/funding/phs398/p
hs398.html) in an interactive format. For further
assistance contact GrantsInfo, phone 301-435-
0714, email GrantsInfo@nih.gov.

Approval/Disapproval Time: From 90-120
days.

Application Results: New grant results are not
available. Check CFDA website for updated
results. www.cfda.gov

Matching Requirements: None.

Evaluation Procedures: Approved grants are
funded based on priority score ranking from a
peer or CDC review, as well as availability of
funds, secondary review and such other

Federal Technology Funding Guide

2006

significant programmatic factors deemed necessary and appropriate by the agency.

Examples: Funded projects include the evaluation of new pharmacological methods to treat brain trauma; investigations involving acute care, biomechanics, prevention, epidemiology, and rehabilitation; and the development of model surveillance systems to address nonfatal injuries.

Program Marketing and Solicitation: Agency website, Federal Register, CFDA, notices in medical journals and universities, and past applications.

CFDA Number: 93.136

Federal Technology Funding Guide

2006

Occupational Safety and Health Research Grants Program

Deadline: February 1, June 1, and October 1

Federal Agency: Department of Health and Human Services; Centers for Disease Control and Prevention

Purpose: The goal of this program is to increase worker safety and health. To develop specialized professional and paraprofessional personnel in the occupational safety and health field with training in occupational medicine, occupational health nursing, industrial hygiene, occupational safety, and other priority training areas.

Focus: R&D.

Award Range: \$50,000 to \$5M
Award Average: \$285,000
Total Budget: FY 05 \$101,217,917
FY 06 est. \$104,942,787
FY 07 est. \$104,942,787

Program Contact:
Office of Extramural Programs, NIOSH
Ctr for Disease Control and Prevention, PHS
Department of Health and Human Services
24 Executive Park Drive, MS E-74
Atlanta, GA 30329
(404) 498-2530 (ph)

Grants Management Contact:
Larry Guess, Grant Specialist
Grant Management Branch, CDC, DOHH
261 Cochran Mill Road, P.O. Box 18070
Pittsburgh, PA 15236
(412) 386-6826 (ph)
(412) 386-6429 (fax)
larry.guess@cdc.hhs.gov

Program Website Address: NIOSH
“Extramural Program”,
<http://www.cdc.gov/niosh/oep>

Deadline: Application deadlines are posted in the published funding opportunity announcements. In addition, certain program deadlines follow a standard schedule: New investigator initiated research: February 1, June 1, and October 1. Supplemental applications and all competing renewal applications: March 1, July 1, and November 1. Conference grant applications and SBIR applications: April 15, August 15, and December 15.

Application Procedures/Forms: The Public Health Service Grant (PHS-398) is the basic form used. The *NIH Guide for Grants and Contracts* is the official document that contains this form, all NIH Requests for Applications, and Program Announcements, in addition to vital information about NIH application procedures. The Guide is found on the Internet at:
<http://grants1.nih.gov/grants/guide/index.html>.

Also contact: GrantsInfo (formerly ASKNIH), Division of Extramural Outreach and Information Resources, Office of Extramural Research, Office of the Director, National Institutes of Health, (301) 435-0714 (ph), (301) 480-0525 (fax); email GrantsInfo@nih.gov
The Guide is available at:
<http://www.nih.gov/grants/guide/index.html>

Approval/Disapproval Time: 7 to 9 months

Application Results: In FY2005, 196 research grants were awarded, while 250 were expected for FY2006.

Matching Requirements: None.

Federal Technology Funding Guide

2006

Evaluation Procedures: Approved grants are funded based on priority score from a scientific review and on program priorities. Initial award generally provides funds for twelve months.

Examples: Dermal absorption of cutting fluid mixtures; understanding vibration injury; electrostatic sampling of airborne microorganisms, health disparities among health workers.

Notes: Funds are available for costs directly attributed to the performance of the research plus certain indirect costs of the institution or agency in accordance with established policies of the Public Health Service.

Program Marketing and Solicitation: Federal Register, CFDA. RFPs and RFAs are available in the NIH Guide.

Catalog of Federal Domestic Assistance:
93.262

Federal Technology Funding Guide

2006

Orphan Products Grant Program Food and Drug Administration Research

Deadline: April 7, Oct. 6

Federal Agency: Department of Health and Human Services; Public Health Service, Food and Drug Administration.

Purpose: To support research for drugs, biologics, medical devices, and foods designed to cure rare diseases and conditions.

Focus: Commercialization.

Award Range: \$889 to \$3.0 M
Award Average: \$232,030
Total Budget: FY 03 \$28.5 M
FY 04 est. \$13.2 M
FY 05 est. \$13.2 M

Clinical trials are awarded grants from \$150,000 to \$300,000 per year in direct costs for up to 3 years.

Program Contact:

For applications:
Debra Y. Lewis
Director, Orphan Products Grant Program
Office of Orphan Products Development, HF-35, Food and Drug Administration
5600 Fisher Lane, Room 6A-55
Rockville, MD 20857
(301) 827-3666 (ph)
(301) 827-7101 (fax)
dlewis@oc.fda.gov

Program Website Address: Orphan Products, <http://www.fda.gov/orphan/grants>

Application Procedures/Forms: Request forms from Debra Y. Lewis.

Approval/Disapproval Time: 6 to 9 months.

Application Results: In FY2004, approx. 43 new awards and 35 continuation awards were funded. In FY2005, it is anticipated that approx. 23 new awards and 65 continuations will be funded.

Matching Requirements: None.

Evaluation Procedures: Initial review by OOPD program staff for relevance and responsiveness to the RFA. An ad hoc panel of experts conducts a secondary review and evaluation for scientific and technical merit. A National Advisory Council's input is sought for concurrence with the recommendations made by the initial review group.

Examples: Post marketing surveillance of adverse drug reactions; interferon gamma treatment of osteoporosis; radiation effects and exposure criteria.

Notes: OOPD has been dedicated to promoting the development of orphan products, or products that demonstrate promise for the diagnosis and/or treatment of rare diseases or conditions. In this case, a rare disease or condition has a prevalence of fewer than 200,000 U.S. patients.

The number of grant awards varies each year depending on the availability of funds. On-going studies are funded first with the remainder of funds going to new studies.

Federal Technology Funding Guide

2006

Program Marketing and Solicitation: Agency website, Federal Register. CFDA, notices in medical journals and universities, and past applications.

Catalog of Federal Domestic Assistance:
93.103

Federal Technology Funding Guide

2006

NIH Grant Programs

All NIH grant programs have the same deadlines (unless otherwise noted), application procedures, general evaluation procedures, and marketing and solicitation. Information particular to each program (such as contact names and numbers) has been included under each program separately.

The following is consistent for all NIH programs:

Federal Agency: Department of Health and Human Services, Public Health Service, National Institutes of Health.

Deadline: February 1, June 1, and October 1.

Application Procedures/Forms: The Public Health Service Grant (PHS-398) is the basic form used. The *NIH Guide for Grants and Contracts* is the official document that contains this form, all NIH Requests for Applications, and Program Announcements, in addition to vital information about NIH application procedures.

Also contact: GrantsInfo (formerly ASKNIH), Division of Extramural Outreach and Information Resources, Office of Extramural Research, Office of the Director, National Institutes of Health, (301) 435-0714 (ph), (301) 480-0525 (fax); email GrantsInfo@nih.gov The Guide is available online at: <http://www.nih.gov/grants/guide/index.html>

Center for Scientific Review
National Institutes Of Health
6701 Rockledge Drive, MSC 7768
Bethesda, MD 20892-7768
Bethesda, MD 20817 (for express/courier

service)
(301) 435-1115 (ph)

Evaluation Procedures: Two-level peer review system in which 1) an external, multidisciplinary Scientific Review Group (SRG) evaluates a proposal for scientific and technical merit; and 2) the National Advisory Council reviews the proposal for relevance, program goals, and fund availability.

Program Marketing and Solicitation: Request for Applications and Program Announcements are available in the *NIH Guide for Grants and Contracts*. Consult the NIH website for all up-to-date grant information, at <http://www.nih.gov/index.html>.

Allergy, Immunology and Transplantation Research Program

NIH Division: National Institute of Allergy and Infectious Diseases, Division of Allergy, Immunology, and Transplantation.

Purpose: To assist public and private nonprofit institutions and individuals to establish, expand, and improve biomedical research and research training in allergic and immunologic diseases and related areas to assist public, private, and commercial institutions to conduct developmental research; to produce and test research materials; and to provide research services as required by the agency for research progress in allergic and immunologic diseases..

Focus: Basic research.

Award Range: \$2,000 to \$4.8 M
Award Average: \$327,387

Federal Technology Funding Guide

2006

Total Budget:

FY 05 \$594,678,000

FY 06 est. \$573,282,000

FY 07 est. \$572,377,000

Contacts:

Dr. John J. McGowan, Acting Director,

(301) 496-7291 (ph)

john.mcgowan@nih.hhs.gov

Grants Management Contact:

Mary Kirker, Grants Mgmt Officer

Grants Management Branch

(301) 496-7075 (ph)

mary.kirker@nih.hhs.gov

Program Website Address: Division of Allergy, Immunology, and Transplantation, <http://www.niaid.nih.gov/>

Application Results: In FY2005, a total of 1,504 grant awards were made to establish, expand, and promote research and research training in basic immunobiology and immunochemistry; hypersensitivity and inflammation; asthma and allergic diseases; the immune system and its disorders; immunopathology, transplantation biology immunogenetics and lymphocyte biology; and the support of research centers for the study of asthma and allergic diseases, immunodermatology, and immunological diseases. A total of 19 SBIR Phase I, 4 SBIR Phase II, 3 STTR Phase I, and 2 Phase II Awards were made in FY2005. An estimated 1,765 and 1,788 total awards will be made in FY2006 and FY2007 respectively.

Examples: Immunobiology and immunochemistry studies; Investigate the biology and chemistry of the immune system

and its products; research in genetics and transplantation biology; research in immunologic diseases; asthma studies which include both primary and predisposing factors.

CFDA Number: 93.855

Applied Toxicological Research and Testing Program

NIH Division: National Institute of Environmental Health Sciences.

Purpose: To develop scientific information about potentially toxic and hazardous chemicals by concentrating on toxicological research, testing and test development, and validation efforts.

Focus: R&D.

Award Range: \$86,124 to \$1.6 M

Award Average: \$280,374

Total Budget: FY05 \$33,846,000
FY06 est. \$35,000,000

Program Contact:

Research Grants, Dr. William Suk, Director
Office of Program Development

(919) 541-0797 (ph)

william.suk@nih.hhs.gov

Grants Management Contact:

Ms. Dorothy Duke

Division of Extramural Research & Training
Grants Management Branch, NIEHS, NIH
P.O. Box 12233

Research Triangle Park, NC 27709-2233

(919) 541-2749 (ph)

dorothy.duke@nih.hhs.gov



Federal Technology Funding Guide

2006

Application Results: N/A

Examples: Development of an earthworm model for analyzing immunotoxicity; a study of rainbow trout as a model for environmental carcinogenesis; an in vivo assay of environmental toxins using magnetic resonance imaging; chick embryos for detecting environmental mutagens; short-term mutagen testing with human and murine cells; and a study of cadmium nephrotoxicity: a cell approach

CFDA Number: 93.114

Arthritis, Musculoskeletal and Skin Diseases Research Program

NIH Division: National Institute of Arthritis and Musculoskeletal and Skin Diseases.

Purpose: To support research relevant to arthritis, musculoskeletal and skin diseases, including but not limited to the following: rheumatoid arthritis, connective tissue diseases, exercise physiology, osteoarthritis, and pigmentation disorders.

Focus: Basic research.

Award Range: \$10,000 to \$3.1 M
Award Average: \$300,000
Total Budget: FY 05 \$398,023,000
FY 06 est. \$392,955,000
FY 07 est. \$387,051,000

Program Contact:
Cheryl Kitt, Director
(301) 594-2463 (ph)
(301) 480-4543 (fax)



cheryl.kitt@nih.hhs.gov

Grants Management Contact:
Melinda Nelson, Grants Management Officer
(301) 435-5278 (ph)
(301) 480-5450 (fax)
melinda.nelson@nih.hhs.gov

Program Website Address:
www.hhs.gov

Application Results: In fiscal year 2005, a total of 1,253 noncompeting and competing research grants were funded. The fiscal year 2006 estimate is 1,237 research grant awards. The fiscal year 2007 estimate is 1,212 grants.

Examples: Tissue injury mechanisms; function of Vitamin D metabolites and bone disease; and the biosynthesis of keratin; regulation of biosynthesis of proteoglycan, sarcoplasmic reticulum function and reassembly.

CFDA Number: 93.846

Biological Response to Environmental Health Hazards Program

NIH Division: National Institute of Environmental Health Sciences.

Purpose: To focus on understanding how chemical and physical agents cause pathological changes in molecules, cells, tissues, and organs and become manifested as respiratory disease, neurological, behavioral and developmental abnormalities, cancer, and other disorders..

Focus: Basic research.

Award Range: \$77,046 to \$1.9 M

Federal Technology Funding Guide

2006

Award Average: \$348,567
Total Budget:
FY 05 \$167,896,000
FY 06 est. \$155,882,000

Program Contact:
Research Grants, Dr. William Suk, Director
Office of Program Development, DERT,
NIEHS
(919) 541-0797 (ph)
suk@niehs.nih.gov

Grants Management Contact:
Dorothy Duke, Chief, Grants Management
Branch, NIEHS, NIH
P.O. Box 12233
Research Triangle Park, NC 27709-2233
(919) 541-2749 (ph)
dorothy.duke@nih.hhs.gov

Program Website Address:
<http://www.niehs.nih.gov>

Application Results: In fiscal year 2005, 484 research grant awards were made, of which 102 were competing RPG applications. In fiscal year 2006, it is anticipated that 495 research grant awards will be made.

Examples: Molecular mechanisms of organ phosphate immunotoxicity; a probable mechanism for the carcinogenicity of 2-nitropropane; a cell culture approach to understanding cadmium nephrotoxicity, the efforts of hexanedione on testicular sertoli cell function and the mechanism of hepatobiliary transport of mercury.

CFDA Number: 93.113

Biometry and Risk Estimation Program Health Risks from Environmental Exposures

NIH Division: National Institute of Health;
Department of Health and Human Services.

Purpose: To conduct a broad-scale effort in biometry and risk estimation. Most of the research conducted by the National Institute of Environmental Health Sciences (NIEHS) in statistics, biomathematics, epidemiology, and risk estimation is directed towards estimating probable health risks of cancer, reproductive and neurological effects, and other adverse effects from human exposures to various environmental hazards.

Focus: R&D, some commercialization.

Award Range: \$70,410 to \$3,205,695
Award Average: \$526,149
Total Budget: FY 05 \$45,775,000
FY 06 est. \$47 M

Program Contact:
Dr. William Suk, Director
Office of Program Development
(919) 541-0797 (ph)
suk@nieh.nih.gov

Dr. Michael McClure
Organ & Systems Toxicology Branch
(919) 541-5327 (ph)
mike.mcclure@nih.hhs.gov

Grants Management Contact:
Dorothy Duke, Chief, Grants Management
Branch, NIEHS, NIH
P.O. Box 12233
Research Triangle Park, NC 27709-2233
(919) 541-2749 (ph)

Federal Technology Funding Guide

2006

dorothy.duke@nih.hhs.gov

Examples: Acid aerosol exposure effects on respiratory morbidity, and health effects of lead on child development.

CFDA Number: 93.115

Blood Diseases and Resources Research Program

NIH Division: National Heart, Lung, and Blood Diseases.

Purpose: To foster research and research training on the pathophysiology, diagnosis, treatment, and prevention of non-malignant blood diseases, including anemias, sickle cell disease, thalassemia; leukocyte biology, pre-malignant processes such as myelodysplasia and myeloproliferative disorders; hemophilia and other abnormalities of hemostasis and thrombosis; and immune dysfunction.

Focus: Basic research.

Award Range: \$126,799 to \$2,526,971
Award Average: \$511,012
Total Budget: FY 05 \$398,565,306
FY 06 est. \$398,565,306
FY 07 est. \$398,565,306

Program Contact:
Charles Peterson
Director, Div. of Blood Diseases and Resources
National Heart, Lung, and Blood Institute
(301) 435-0080 (ph)
<mailto:charles.peterson@nih.hhs.gov>

Grant Contact:
Suzanne White

Grants Operations Branch
(301) 435-0144 (ph)
suzanne.white@nih.hhs.gov

Program Website Address: Division of Blood Diseases and Resources,
<http://www.nhlbi.nih.gov/about/dbdr/index.htm>

Application Results: N/A

Examples: Basic and clinical studies of coagulation proteins to study molecular structure and function relationships; and gene cloning and monoclonal antibody production.

CFDA Number: 93.839

Cancer Biology Research Program

NIH Division: National Cancer Institute.

Purpose: To provide fundamental information on the cause and nature of cancer in man, with the expectation that this will result in better methods of prevention, detection and diagnosis, and treatment of neoplastic diseases.

Focus: Basic research.

Award Range: \$58,055 to \$2,880,629
Award Average: \$347,764
Total Budget: FY 05 \$552,249,000
FY 06 est. \$562,383,000
FY 07 est. \$519,957,000

Program Contact:
Dr. John A. Sogn, Deputy Director
Div. of Cancer Biology
National Cancer Institute
6130 Executive Blvd., EPN5050
Bethesda, MD 20892

Federal Technology Funding Guide

2006

(301) 594-8782 (ph)
js137h@nih.gov

Grants Management Contact:
Leo F. Buscher, Jr.
Grants Management Officer
(301) 496-7753 (ph)
Lb45u@nih.gov

Program Website Address:
Division of Cancer Biology
<http://www.nci.nih.gov/dcb/dcbhom.htm>

Application Results: Competing FY 2005 RPG act. 358 awards, which were 21.1% of applications received. Fiscal year 2006 est. 1,668 total awards and FY 2007 est. 1,605 total awards.

Examples: Studies of the properties of the membranes of malignant cells; studies of the molecular genetics of oncogenes and tumor suppressor genes and the proteins they encode; studies of the mechanism of action of growth factors and other growth modifiers and differentiation agents; studies of the regulation of the biology of tumor cells by their micro environment

CFDA Number: 93.396

Cancer Cause and Prevention Research Program

NIH Division: National Cancer Institute.

Purpose: To identify those factors that cause cancer and to develop mechanisms to prevent cancer. The following research programs are included: epidemiology, chemical and physical carcinogenesis, biological carcinogenesis,

nutrition, immunology, field studies and statistics, chemoprevention and organ site.

Focus: Basic research.

Award Range: \$27,171 to \$5.3 M
Award Average: \$412,691
Total Budget: FY 05 \$709,574,000
FY 06 est. \$663,722,000
FY 07 est. \$656,180,000

Program Contact:
Dr. Ed Trapido, Associate Director
Epidemiology and Genetic Research
(301) 496-9600 (ph)
ed.trapido@nih.hhs.gov

Grants Management Contact:
Division of Cancer Control and Population Sciences, NCI, NIH
6130 Executive Blvd. EPN 5113B
Bethesda, MD 20892

Application Results: In FY2005, an estimated 381 total awards were made. A projected 1,691 awards will be given in FY2006 and 1,696 will be given in FY2007.

Examples: An epidemiologic study of lung cancer and wood dust; prostate cancer in relation to vasectomy; and mechanisms of estrogen-induced breast carcinogenesis.

CFDA Number: 93.393

Cancer Control Program

NIH Division: National Cancer Institute.

Federal Technology Funding Guide

2006

Purpose: To reduce cancer incidence, morbidity, and mortality through an orderly sequence from research on interventions and their impact in defined populations to the broad, systematic application of the research results through dissemination and diffusion strategies. Primary emphasis is on the inclusion of a cancer prevention and control intervention in any proposed study.

Focus: Basic research, some R&D.

Award Range: \$16,733 to \$17,418,204
Award Average: \$1,044,185
Total Budget: FY 05 \$231,809,000
FY 06 est. \$226,379,000
FY 07 est. \$225,379,000

Program Contact:

For chemoprevention, nutrition and diet, screening and early detection, community oncology and rehabilitation and pain management:

Dr. Peter Greenwald
NCI, Div. of Cancer Prevention and Control
(301) 496-6616 (ph)
<mailto:peter.greenwald@nih.hhs.gov>

For public health applications, biobehavioral mechanisms, special populations, and surveillance:

Dr. Robert T. Croyle, Director
Div. of Cancer Control and Population Sciences
(301) 594-6776 (ph)
<mailto:bob.croyle@nih.hhs.gov>

Grants Management Contact:
Leo F. Buscher, Jr., Grants Management Officer

(301) 496-7753 (ph)
lb45u@nih.gov

Division Website Address: Division of Cancer Prevention, <http://dcp.nci.nih.gov/DCP/>

Application Results: In FY 2005, of 263 competing applications, 80 were funded for 30%; 222 total competing and noncompeting awards were made. It is estimated that 199 total awards will be made in fiscal year 2006 and 199 total awards are estimated for fiscal year 2007..

Examples: Smoking Prevention - Transdisciplinary Tobacco Use Research Centers; Energy Balance - Diet, Weight and Physical Activity research; Transdisciplinary Research on Energetics and Cancer; Study of Tamoxifen and Raloxifene for the Prevention of Breast Cancer (STAR)

Notes: This program has split into two separate divisions, the Division of Cancer Control and Population Sciences, and the Division of Cancer Prevention, both of which continue to grant funds. Primary emphasis is including cancer control intervention in any proposed study.

CFDA Number: 93.399

Cancer Detection and Diagnosis Research Program

NIH Division: National Cancer Institute.

Purpose: To improve screening and early detection strategies and to develop accurate diagnostic techniques and methods for

Federal Technology Funding Guide

2006

predicting the course of disease in cancer patients.

Focus: R&D.

Award Range: \$60,000 to \$5,287,695
Award Average: \$415,783
Total Budget: FY 05 \$246,975,000
FY 06 est. \$242,255,000
FY 07 est. \$244,607,000

Program Contact:

Dr. Sheila E. Taube, Associate Director
Telephone: (301) 496-8639
st29f@nih.gov

Grants Management Contact:

Leo F. Buscher, Jr.
Grants Management Officer
Telephone: (301) 496-7753
lb45u@nih.gov

Application Results: Competing FY 2005 RPG actual 219 awards which were 22.4% of applications received. Competing FY 2005 SBIR/STTR actual 46 awards which were 12.8% of applications received. Fiscal year 2006 est. 729 total awards and FY 2007 est. 709 total awards.

Examples: Screening and early detection research includes development of more sensitive and specific detection techniques in asymptomatic individuals; developing tests to identify individuals with a genetic predisposition to specific cancers; assessment of availability of, access to, and use of these techniques in the community; development of community outreach methods to encourage all segments of the population to take advantage of available services; and collection of cancer

surveillance data to assess effectiveness of cancer interventions.

CFDA Number: 93.394

Cancer Treatment Research Program

NIH Division: National Cancer Institute.

Purpose: To develop the means to cure as many cancer patients as possible and to control the disease in those patients who are not cured. Cancer Treatment Research includes the development and evaluation of improved methods of cancer treatment through the support and performance of both fundamental and applied laboratory and clinical research.

Focus: Basic research.

Award Range: \$56,928 to \$6,893,995
Award Average: \$422,250
Total Budget: FY 05 \$523,590,000
FY 06 est. \$523,166,000
FY 07 est. \$522,096,000

Program Contact:

Dr. James Doroshow, Director
(301) 496-4291 (ph)
doroshoj@mail.nih.gov

Grants Management Contact:

Leo F. Buscher, Jr., Grants Management Officer
(301) 496-7753 (ph)
lb45u@nih.gov

Application Results: Competing FY 2005 RPG act. 334 awards which were 19.0% of applications received. Competing FY 2005 SBIR/STTR act. 58 awards which were 11.5%

Federal Technology Funding Guide

2006

of applications received. Fiscal year 2006 est. 1,365 total awards and FY 2007 est. 1,350 total awards.

Examples: Projects on problems of anticancer drug discovery and development, preclinical biochemistry, pharmacology, and cell and molecular biology of cancer treatment and the clinical development and evaluation of all modalities of treatment, both alone and in combination.

CFDA Number: 93.395

Clinical Research Related to Neurological Disorders

NIH Division: National Institute of Neurological Disorders and Stroke (NINDS).

Purpose: To support extramural research including: neurological science basic research that explores the fundamental structure and function of the brain and the nervous system; research to understand the causes and origins of pathological conditions of the nervous system with the goal of prevention of these disorders; research on the natural course of neurological disorders; research on mechanisms associated with stroke and other cerebrovascular disorders, effects of trauma to the nervous system, neuroplasticity and regeneration, and tumors of neural and sensory tissues; improved methods of disease prevention; new methods of diagnosis and treatment; clinical trials; drug development; development of neural prostheses for stroke and paraplegia; epidemiological research; and research training in the clinical neurosciences.

Focus: R&D.

Award Range: \$73,700 to \$10.3 M
Award Average: \$384,500
Total Budget: FY 05 \$1.4B
FY 06 est. \$1.3B
FY 07 est \$1.3B

Program Contact:

Dr. Robert Finkelstein, Director
Division of Extramural Research, NINDS
(301) 496-9248
rf45c@nih.gov

Dr. Naomi Kleitman
Repair and Plasticity
(301) 496-1447
nk85q@nih.gov

Dr. Randy Stewart
Channels, Synapses, & Circuits
(301) 496-1917
rs416y@nih.gov

Dr. Diane Murphy
Neurodegenerations
(301) 496-5680
dml52o@nih.gov

Dr. Robert Baughman
Technology Development
(301) 496-1779
rb175y@nih.gov

Dr. Emmeline Edwards
Systems & Cognition Neuroscience
(301) 496-9964
ee48r@nih.gov

Dr. Gabrielle Leblanc
Neurogenetics
(301) 496-5745
gl54h@nih.gov

Federal Technology Funding Guide

2006

Grants Management Contact:
Mr. Mike Loewe, Grants Mgmt. Officer
(301) 496-9231
ml70m@nih.gov

Contract Management:
Mr. Kirk Davis
Contracts Management Office
(301) 496-1813
kd17c@nih.gov

Application Results: In fiscal year 2005, there were 3,166 competing research applications, and of that number 700 awards were made. The estimated competing research awards in fiscal year 2006 are 519, and 561 in fiscal year 2007.

Examples: Cerebral palsy; disorders of aging including Parkinson's, Huntington's, and Alzheimer's diseases and the dementias; muscular, neuromuscular and demyelinating disorders; neuroendocrine studies; neural aspect of learning and behavior; nervous system tumors, and infectious diseases of the central nervous system.

Notes: The clinical research program sponsors clinical trials to evaluate various therapeutic approaches to head and spinal cord injury, epilepsy, multiple sclerosis and other neurological and neuromuscular disorders. The effects of systemic cancer on the central nervous system are studied, as part of the brain and spinal cord tumor research effort.

CFDA Number: 93.853

**Diabetes, Endocrinology and Metabolism
Research Program**

NIH Division: National Institute of Diabetes and Digestive and Kidney Diseases.

Purpose: To encourage basic and clinical biomedical research and research training and career development in diabetes, endocrinology and metabolic diseases. In diabetes research, to encourage biomedical research to develop a greater understanding of diabetes and the underlying mechanisms that cause diabetes and related complications and translate this understanding to new and improved therapies.

Focus: Basic research.

Award Range: \$16,600 to \$2,098,000
Award Average: \$180,100
Total Budget: FY 05 \$546,664,000
FY 06 est. \$544,962,000
FY 07 est. \$537,183,000

Program Contact:
Dr. Judith Fradkin, Director
(301) 496-7349 (ph)
fradkinj@ep.niddk.nih.gov

Grants Management Contact:
Mr. David L. Mineo
Chief Grant Management Officer
Division of Extramural Activities
(301) 594-8854 (ph)
mineod@extra.niddk.nih.gov

Division Website Address:
<http://www.niddk.nih.gov/fund/fund.htm>

Application Results: In fiscal year 2005, 1,495 awards were made; in fiscal year 2006, 1,439 awards are estimated, and in fiscal year 2007, 1,399 awards are estimated.

Federal Technology Funding Guide

2006

Examples: Genetic Studies of Type 2 Diabetes; Regulators of Insulin Secretion and Action; Mode of Action of Steroid Hormones; Autoimmune Basis of Type 1 Diabetes; and Activators of Mutant Cystic Fibrosis Transmembrane Regulator (CFTR).

Notes: This program is geared toward biomedical research organizations and institutions. Cooperative research between businesses and research institutions are also eligible for funding.

CFDA Number: 93.847

Digestive Diseases and Nutrition Research Program

NIH Division: National Institute of Diabetes and Digestive and Kidney Diseases.

Purpose: To research obesity, anorexia, and other eating disorders; gastrointestinal issues; liver diseases; and studies of food digestion.

Focus: Basic research.

Award Range: \$26,547 to \$1,438,500
Award Average: \$164,900
Total Budget: FY 05 \$390,840,000
FY 06 est. \$389,623,000;
FY 07 est \$384,061,000

Program Contact:
Research Grants
Dr. Stephen James
(301) 594-7680 (ph)
James@extra.niddk.nih.gov

Grants Management Contact
Mr. David L. Mineo

Chief Grant Management Officer
Division of Extramural Activities
(301) 594-8854 (ph)
mineod@extra.niddk.nih.gov

Program Website Address:
<http://www.niddk.nih.gov>

Application Results: In fiscal year 2005, 1216 awards were made; in fiscal year 2006, 1207 awards are estimated; and in fiscal year 2006, 1171 awards are estimated, in fiscal year 2007, 1,138 awards are estimated.

Examples: Pathogenesis of Gastroesophageal reflux disease (GERD); Genetics of inflammatory bowel disease; Inflammation in IBD; Prevention of weight gain; Treatment of non-alcoholic steatohepatitis (NASH); Long-term treatment of hepatitis C.

Notes: Research institutions primarily win awards. However, for-profit organizations are eligible for funding when participating in a partnership with a research institution.

CFDA Number: 93.848

Drug Abuse Research Programs

NIH Division: Division of Neuroscience and Behavioral Research

Purpose: To support epidemiologic, basic, and applied research to develop new approaches related to the prevention, treatment, and consequences of drug addiction, including HIV/AIDS.

Focus: R&D.

Federal Technology Funding Guide

2006

Award Range: \$23,000 to \$907,000
Award Average: \$141,000
Total Budget: FY 05 \$34,789,000
FY 06 est. \$35,976,000;
FY 07 est \$36,336,000

(301) 443-6071

Grants Management Contact:
Dr. Gary Fleming, Grants Management Officer.
Telephone: (301) 443-6710

Application Results: In fiscal year 2005, 3,589 applications were received, 2,261 awards were issued. In fiscal year 2006, an estimated 4,100 applications are anticipated, 2,318 awards are anticipated. In fiscal year 2007, an estimated 4,203 applications are anticipated, 2,376 awards are anticipated.

Examples: Epidemiology of drug abuse among minority populations; Studies of AIDS among IV Drug Abusers; Studies of Narcotic- Induced Respiratory Depression; Endorphins: Metabolism, Release, and Tolerance; Neurobiological and Behavior Mechanisms of Addictive and Compulsive Behavior; Maternal/Paternal Effects of Drugs of Abuse; and Effects of Drug Abuse on Adolescent and Development.

Program Contact:
Dr. David Shurtleff
Director
Division of Neuroscience Research
(301) 443-1887 (ph)
dshurtle@ngmsmp.nida.nih.gov

CFDA Number: 93.279

Dr. Frank Vocci
Division of Treatment Research &
Development
(301) 443-6173 (ph)

Heart and Vascular Diseases Research Program

Dr. Wilson Compton
Division of Epidemiology
(301) 443-6504 (ph)
wc88f@nih.gov

NIH Division: National Heart, Lung, and Blood Institute.

Purpose: To foster research and prevention, education, and control activities related to heart and vascular diseases and to develop young scientist investigators in these areas.

Dr. Henry Francis
Center on AIDS and Other Medical
Consequences
(301) 443-1801 (ph)

Focus: Basic research.

Dr. Lucinda Miner
Research Training & Research Scientist
Development
(301) 443-6071 (ph)

Award Range: \$108,000 to \$3.27 M
Award Average: \$451,486
Total Budget: FY 05 \$1.3B;
FY 06 est. \$1.3B;
FY 07 est. \$1.3B

SBIR
Catherine Sasek

Program Contact:
Dr. Stephen Mockrin, Director
Division of Heart and Vascular Diseases



Federal Technology Funding Guide

2006

National Heart, Lung, and Blood Institute
(301) 435-0466 (ph)
mockrins@nhlbi.nih.gov

Examples: Investigator-initiated research project grants on the surgical treatment of cardiac arrhythmias, on growth-factor mediation of healing in vascular grafts, and on mechanisms for cardiovascular control early in diabetes; Institute-initiated research project grants on stem cell research in cardiomyopathy, on using adult stem cells to repair cardiac damage, and on altered glucose and lipid metabolism in obesity and cardiovascular disease; AIDS-related research project grants on cardiomyopathy, on mitochondrial nucleotide carriers, and on endothelial oxidative stress and atherosclerosis.

CFDA Number: 93.837

Human Genome Research Program

NIH Division: National Human Genome Research Institute; National Institute of Health; Department of Health and Human Services.

Purpose: To obtain genetic maps, physical maps, and determine the DNA sequences of the genomes of humans and model organisms to be used as resources for biomedical research, medicine, and biotechnology.

Focus: R&D, some commercialization.

Award Range: \$7,148 to \$9.5 M
Award Average: \$610,048
Total Budget: FY 05 \$331,401,000
FY 06 est. \$334,060,000;
FY 07 est. \$348,969,000

Program Contact:

National Human Genome Research Institute

Dr. Mark Guyer
(301) 496-7531 (ph)
mark_guyer@nih.gov

Dr. Bettie Graham
(301) 496-7531 (ph)
grahambj@exchange.nih.gov

Grants Management Office Contact:
Cheryl Chick, Grants Mgmt Officer
(301) 402-0733 (ph)
chickc@mail.nih.gov

Division Website Address: www.nhgri.nih.gov

Application Results: In FY2003, 187 research project grants were funded. In FY2004, an estimated 218 research project grants were funded. In FY2005, an estimated 235 applications for competing research project grants are expected to be received. Of that number, 76 competing grants are estimated to be funded.

Examples: Large scale sequence and analysis of genomes; detecting human functional sequences with microarrays; microscale instrument development for genomic analysis; and cross-species gene finding and annotation.

CFDA Number: 93.172

Lung Diseases Research Program

NIH Division: National Heart, Lung, and Blood Institute.

Federal Technology Funding Guide

2006

Purpose: To use available knowledge and technology to solve specific disease problems of the lungs; to promote further studies on the structure and function of the lung; and to achieve improvement in the prevention and treatment of lung diseases.

Focus: Basic research, some R&D.

Award Range: \$97,509 to \$903,938
Award Average: \$284,034
Total Budget: FY 05 \$557,295,000
FY 06 est. \$557,295,000;
FY 07 est. \$557,295,000

Program Contact:

James Kiley, Director
Division of Lung Diseases
National Heart, Lung, and Blood Institute
(301) 435-0233 (ph)
james.kiley@nih.hhs.gov

Grants Management Contact:

Ms. Suzanne White
Grants Mgmt. Officer
Grants Operations Branch
Office of Program Policy and Procedures
(301) 435-0144 (ph)
suzanne.white@nih.hhs.gov

Division Website Address:

National Heart, Lung, and Blood Institute
<http://www.nhlbi.nih.gov/about/dld/>

Application Results: In fiscal year 2005, 1,235 research grants were made. The estimates for fiscal year 2006 are 1,241 research grants. The estimates for fiscal year 2007 are 1,247 research grants.

Examples: Basic research to investigate substrate uptake; defense mechanisms that

protects the lung against toxic agents; and chemical mediators of acute pulmonary disorders, focusing on the mechanisms causing bronchial asthma in humans.

Notes: The Division of Lung Diseases oversees two separate programs. The Airway Biology and Disease Program targets chronic obstructive pulmonary diseases, asthma, cystic fibrosis, control of breathing, bronchiolitis, respiratory neurobiology, sleep, and other adult airway diseases. The Lung Biology and Disease Program targets lung cell and vascular biology, pediatric lung disease, acute lung injury and critical care medicine, interstitial lung diseases, including pulmonary fibrosis, and AIDS and tuberculosis.

CFDA Number: 93.838

Microbiology and Infectious Diseases Research

NIH Division: National Institutes of Allergy and Infectious Diseases.

Purpose: The objectives of the program are to assist public and private nonprofit institutions and individuals to establish, expand and improve biomedical research and research training in infectious diseases and related areas; to assist public, private and commercial institutions to conduct developmental research; to produce and test research materials; and to provide research services as required by the agency for programs in infectious diseases; and to make grants or award contracts to public and nonprofit private entities to expand, remodel, renovate, or alter existing research facilities or construct new facilities.

Federal Technology Funding Guide

2006

Focus: Varies from basic research to product commercialization.

Award Range: \$5,000 to \$12,477,542
Award Average: \$546,671
Total Budget: FY 05 \$2.0B;
FY 06 est. \$1.9B;
FY 07 est. \$1.9B

Program Contact:

Dr. John J. McGowan, Director
(301) 496-7291 (ph)
jm80c@nih.gov

Grants Management Contact:
Mary Kirker, Grants Management Officer
Grants Management Branch
(301) 402-6400 (ph)
mk35h@nih.gov

Application Results: In fiscal year 2005, a total of 3,688 awards were made to establish, expand, and promote research and research training in bacterial and mycosis diseases, viral diseases, parasitic diseases and other related areas. An estimated 4,327 and 4,383 awards will be made in fiscal years 2006 and 2007 respectively.

Examples: Manipulation of recombinant DNA molecules to better ascertain the molecular basis of pathogenicity and to create new substances of biological and medicinal utility; and studies in the area of bacteriology and mycology, and viruses and parasitology.

CFDA Number: 93.856

**National Center on Sleep Disorders
Research Program**

NIH Division: National Institute of Health;
Department of Health and Human Services.

Purpose: To support research, training, health information dissemination and other activities with respect to sleep disorders, including biological and circadian rhythm research, basic understanding of sleep, chronobiological and other sleep related research.

Focus: R&D, training, and public awareness.

Award Range: \$85,573 to \$964,467
Award Average: \$350,233
Total Budget: FY 05 \$50,558,000;
FY 06 est. \$50,811,000;
FY 07 est. \$51,065,000

Program Contact:

Director
National Center on Sleep Disorders Research
(301) 435-0199 (ph)

Grants Management Office Contact:
Ms. Suzanne White, Grants Mgmt. Officer
(301) 435-0144 (ph)
suzanne.white@nih.hhs.gov

Examples: Phenotypic Characterization of Sleep in Mice; Nocturnal Asthma, Chronobiology and Sleep; Research on Sleep and Sleep Disorders; Mechanisms Linking Short Sleep Duration and Risk of Obesity or Overweight; the Specialized Centers of Research (SCOR) program in Neurobiology of Sleep and Sleep Apnea, Innovative Application of Nanotechnology to Heart, Lung, Blood, and Sleep Disorders

CFDA Number: 93.233

Federal Technology Funding Guide

2006

Biomedical Research and Research Training

NIH Division: National Institute of Health;
Department of Health and Human Services.

Purpose: The National Institute of General Medical Sciences supports basic biomedical research that increases understanding of life processes and lays the foundation for advances in disease diagnosis, treatment, and prevention. The Institute's programs encompass the areas of cell biology, biophysics, genetics, developmental biology, pharmacology, physiology, biological chemistry, bioinformatics, computational biology, and minority biomedical research and training.

Focus: R&D and training.

Award Range: \$20,000 to \$7.50 M
Award Average: N/A
Total Budget: FY 05 \$1.85 B
FY 06 est. \$1.85 B
FY 07 est. \$1.82 B

Program Contact:

Dr. Catherine Lewis, Acting Director
Division of Cell Biology and Biophysics
(301) 594-0828 (ph)
cassattj@nigms.nih.gov

Dr. Judith H. Greenberg, Director
Division of Genetics and Development Biology
(301) 594-0943 (ph)
greenbej@nigms.nih.gov

Dr. Michael E. Rogers, Director
Division of Physiology, and Biological
Chemistry Research Program
(301) 594-3827 (ph)
rogersm@nigms.nih.gov

Dr. John Whitmarsh, Acting Director
Center for Bioinformatics and Computational
Biology
(301) 451-6446
ej84f@nih.gov

Dr. Clifton A. Poodry, Director
Division of Minority Opportunities in Research
(301) 594-3900
poodryc@nigms.nih.gov

Note: NIGMS is organized into divisions that support research and research training in basic biomedical science fields. One division has the specific mission of increasing the number of underrepresented minority biomedical and behavioral scientists.

CFDA Number: 93.859 (All programs have been consolidated into the Pharmacology, Physiology, and Biological Chemistry Research Program)

Oral Diseases and Disorders Research Program

NIH Division: National Institute of Dental and Craniofacial Research.

Purpose: To support research on the following involving cranial-facial-oral-dental health: inherited diseases and disorders; infectious diseases; neoplastic diseases; chronic disabling diseases; and biomaterials, biomimetics, and tissue engineering, behavior, health promotion and environment program.

Focus: Basic research.

Award Range: \$1,000 to \$5.6 M



Federal Technology Funding Guide

2006

Award Average: \$318,000
Total Budget: FY 05 \$296,956,000;
FY 06 est. \$293,341,000;
FY 07 est \$288,744,000

Program Contact:

Division of Basic and Translational Sciences
Dr. Ann Sandberg
(301) 594-2419 (ph)
sandberga@de45.nidr.nih.gov

Division of Extramural Activities
Dr. H. George Hausch
(301) 594-2904 (ph)
hauschg@de45.nidr.nih.gov

Division of Population and Health Promotion
Sciences
Dr. Bruce Pihlstrom
(301) 594-4830 (ph)
bruce.pihlstrom@nih.gov

Division of Intramural Research
Dr. Henning Birkedal-Hansen
(301) 496-1483 (ph)
hbhansen@dir.nidcr.nih.gov

Application Results: In fiscal year 2005, 735 new and competing research project grant applications were received; 179 were awarded at a cost of \$57,367,000. The Institute also supported 488 noncompeting research project grants at \$177,170,000. In fiscal year 2006, the NIDCR expects to support 481 noncompeting research project grants at \$175,030,126,000 and 177 competing grants at \$56,873,000. Funding for fiscal year 2007 is estimated as follows: 451 noncompeting research project grants at \$171,443,000, 169 competing grants at \$54,177,000.

Examples: Research center support coordinated studies of periodontal diseases,

clinical cores, dental caries, oral biology, craniofacial disorders, oral cancer, minority oral health, and materials sciences; genomic sequencing of bacterial oral pathogens; metalloproteinases in developing enamel;

CFDA Number: 93.121

National Center for Research Resources

NIH Division: The Division of Research Infrastructure.

Purpose: The National Center for Research Resources (NCRR) provides laboratory scientists and clinical researchers with the environments and tools they need to understand, detect, treat, and prevent a wide range of diseases. This support enables discoveries that begin at a molecular and cellular level, move to animal-based studies, and then are translated to patient-oriented clinical research, resulting in cures and treatments for both common and rare diseases.

Focus: Basic research.

Award Range: \$42,000 to \$1,107,000
Award Average: N/A
Total Budget: FY 05 \$72,963,000;
FY 06 est. \$65,439,000;
FY 07 est. \$64,690,000

Contacts:

Director of Research Infrastructure
Telephone: (301) 435-0788

Grants Management Office
Telephone: (301) 435-0844

Division Website Address:

http://www.ncrr.nih.gov/research_infra.asp



Federal Technology Funding Guide

2006

FY 07 est. \$526 M

Application Results: In FY2005, there were 117 Research Project Grants; in FY2006, it is estimated that there will be 119 and in FY2007 114.

Examples: Analysis using synchrotron X-rays of the crystal structure of the myosin head that is the key to the contraction of muscle; development of a two-photon laser method to directly explore chemical processes in living cells; and the use of a computer network and a super computer to remotely operate an electron microscope in real time and analyze the image.

CFDA Number: 93.389

Vision Research Program

NIH Division: National Eye Institute.

Purpose: To support eye and vision research projects that address the leading causes of blindness and impaired vision in the U.S. These include retinal diseases; corneal diseases; cataract; glaucoma and optic neuropathies; strabismus; amblyopia; and low vision and blindness rehabilitation.

Focus: Basic research.

Award Range: \$2,889 to \$7.0 M
Award Average: \$333,101
Total Budget: FY 05 \$496 M
FY 06 est. \$514 M

Contacts:

Ralph J. Helmsen, Ph.D.
Research Resources Officer
Telephone: (301) 451-2020
rh27v@nih.gov

Grants Management Office:
Mr. William W Darby
Grants Management Branch
Telephone: (301) 451-2020
wwd@nei.nih.gov

Division Website Address: National Eye Institute, www.nei.nih.gov/

Application Results: A report by the National Advisory Eye Council, "Vision Research - A National Plan: 1999-2003," provides a comprehensive summary of the program's goals, objectives, accomplishments, research budget, and program and management policies, as well as statistical information on the incidence, prevalence, and cost of visual disorders. Copies of this document are available on the Internet at <http://www.nei.nih.gov/resources/strategicplans/plan.asp>

Examples: Projects include studies of retinal diseases, corneal diseases, lens and cataracts, glaucoma, visual processing, and visual impairment and rehabilitation.

CFDA Number: 93.867

Federal Technology Funding Guide

2006

Department of Homeland Security

The creation of the Department of Homeland Security (DHS) is the most significant transformation of the U.S. government since 1947, when Harry S. Truman merged the various branches of the U.S. Armed Forces into the Department of Defense to better coordinate the nation's defense against military threats.

DHS represents a similar consolidation, both in style and substance. In the aftermath of the terrorist attacks against America on September 11th, 2001, President George W. Bush decided 22 previously disparate domestic agencies needed to be coordinated into one department to protect the nation against threats to the homeland.

The new department's first priority is to protect the nation against further terrorist attacks. Component agencies will analyze threats and intelligence, guard borders and airports, protect the critical infrastructure, and coordinate the response of the nation for future emergencies.

Besides providing a better-coordinated defense of the homeland, DHS is also dedicated to protecting the rights of American citizens and enhancing public services, such as natural disaster assistance and citizenship services, by dedicating offices to these important missions.

For additional information contact:

U.S. Department of Homeland Security
Washington, D.C. 20528

<http://www.dhs.gov/>

Federal Technology Funding Guide

2006

Intercity Bus Security Grants

Deadline: Varies

Federal Agency: Department of Homeland Security

Purpose: To create a sustainable program for the protection of intercity bus systems and the traveling public from terrorism, especially explosives and non-conventional threats which would result in major loss of life and severe disruption.

Focus: R&D.

Award Range: \$9,900 to \$9.0 M
Award Average: \$330,000
Total Budget: FY 05 \$9,657,100;
FY 06 est. \$9,603,000;
FY 07 est. \$585,200,000

Contact:
Grants/Contracts Management Branch
Office of Maritime & Land Security
TSA Headquarters, TSA-8
701 South 12th Street
Arlington, VA 22202

Program Website Address: www.dhs.gov

Deadline: Deadlines will be identified in the program guidance.

Application Procedures/Forms: Applications must be submitted online via the GMS at <https://grants.ojp.usdoj.gov/> and must contain the information and meet the requirements outlined in the Program Guidelines and Application Kit. The standard application forms as furnished by the Federal agency will be used for this program. Each application must

contain a signed Application for Federal Assistance (SF 424), assurances and certifications, NEPA information, and a copy of the approved indirect cost rate agreement (if applicable).

Approval/Disapproval Time: Awards are anticipated within 60 days of the application deadline.

Application Results: FY 2005 G&T selected \$9,657,100 for 25 projects.

Matching Requirements: This program has no statutory formula and no matching requirements. TSA encourages grant recipients to consider cost sharing.

Evaluation Procedures: Each grant application will be reviewed for documentation required in the Program Guidelines and Application Kit.

Examples: N/A

Notes: None

Catalog of Federal Domestic Assistance: 97.057

Federal Technology Funding Guide

2006

Research Projects

Deadline: None

Federal Agency: Department of Homeland Security

Purpose: To provide funding that has been designated by Congressionally appropriated funding level, generally to a specified entity for a project, or to provide one-time funding for a one-time program or project identified by a DHS program office. If the funding is continued after the initial appropriation, the program will be assigned a CFDA number.

Focus: R&D.

Award Range: N/A
Award Average: N/A
Total Budget: FY 03 \$2.0 M
FY 04 est. N/A
FY 05 est. N/A

Contact:
Van Pace
DHS Grant Policy Office
(202) 692-4341 (ph)

Program Website Address:
<http://www.dhs.gov/dhspublic/display?theme=37&content=3608>

Deadline: Application deadlines are specified in the notification of funds availability submitted to the recipient of funds.

Application Procedures/Forms: An application (SF 242, Budget, program or project narrative and assurances) or plan must be submitted that outlines the implementation of the project and

expenditure of funds in response to the project identified through the notification.

Approval/Disapproval Time: The range of approval depends on the type of project to be funded.

Application Results: N/A

Matching Requirements: "Earmarked" or one-time funding amounts and match requirements are specified in the U.S. Program or Appropriation Statute, regulation or project guidance.

Evaluation Procedures: N/A

Examples: N/A

Notes: None

Catalog of Federal Domestic Assistance: 97.002

Federal Technology Funding Guide

2006

Special Projects

Deadline: None

Federal Agency: Department of Homeland Security

Purpose: To provide funding that has been designated by Congressionally appropriated funding level, generally to a specified entity for a project, or to provide one-time funding for a one-time program or project identified by a DHS program office. If the funding is continued after the initial appropriation, the program will be assigned a CFDA number.

Focus: R&D.

Award Range: N/A
Award Average: N/A
Total Budget: FY 03 \$1.5 M
FY 04 est. N/A
FY 04 est. N/A

Contact:
Van Pace
DHS Grant Policy Office
(202) 692-4341 (ph)

Program Website Address: www.dhs.gov

Deadline: Application deadlines are specified in the notification of funds availability submitted to the recipient of funds.

Application Procedures/Forms: An application (SF 242, Budget, program or project narrative and assurances) or plan must be submitted that outlines the implementation of the project and expenditure of funds in response to the project identified by the U.S. Appropriation Statute.

Approval/Disapproval Time: The range of approval depends on the type of project to be funded.

Application Results: N/A

Matching Requirements: "Earmarked" or one-time funding amounts and match requirements are specified in the U.S. Program or Appropriation Statute, regulation or project guidance.

Evaluation Procedures: N/A

Examples: Earmark funding to assist New York City in the recovery of the 9/11/2001 terrorist attacks.

Notes: None

Catalog of Federal Domestic Assistance: 97.001

Federal Technology Funding Guide

2006

Truck Security Program

Deadline: None

Federal Agency: Department of Homeland Security

Purpose: To promote security awareness among all segments of the commercial motor carriers and transportation community. The Truck Security Program plans to train the Nation's transportation community to observe and report any suspicious activities or items that may threaten the critical elements of the Nation's highway transportation system.

Focus: R&D.

Award Range: N/A
Award Average: N/A
Total Budget: FY 05 \$5,000,000;
FY 06 est. \$4,801,500;
FY 07 est. \$585,200,000

Contact:
David Quang
Program Analyst
Transportation Security Office of Maritime &
Land Security
Grants/Contracts Management Branch TSA-8
701 South 12th Street
Arlington, VA 22202
(571) 227-1137 (ph)
david.quang@dhs.gov

Program Website Address:
<http://www.ojp.usdoj.gov/odp>

Deadline: Contact Transportation Security Administration, TSA-8, Maritime and Land Security, Grants/Contracts Management Branch for application deadlines. Written notice will be published in the Federal Register (<http://www.gpoaccess.gov/fr/index.html>) and Federal Grant Opportunities for Grants (<http://www.fedgrants.gov>).

Application Procedures/Forms: Applications must be submitted online using Grants.gov and must contain the information and meet the requirements outlined in the Program Guidelines and Application Kit. The standard application forms as furnished by the Federal agency will be used for this program.

Approval/Disapproval Time: Awards are anticipated within 120 days of the application deadline.

Application Results: N/A

Matching Requirements: This program has no statutory formula and no matching requirements. TSA encourages grant recipients to consider cost-sharing.

Evaluation Procedures: Projects will be selected based on the availability of funding, and the quality of the projects submitted. See the RFA for more specific criteria.

Examples: N/A.

Catalog of Federal Domestic Assistance:
97.059

Federal Technology Funding Guide

2006

Department of the Interior

The Department of Interior is responsible for preserving the country's natural resources and public lands.

Most of the department's R&D funds are allocated directly to states by law. In addition, more than 40 percent of the department's acquisition budget is spent on construction.

The R&D activities that are performed by the department focus on geology, biology, and hydrology, and programs organized by the U.S. Geological Survey (USGS). The USGS performs surveys and investigations. It also researches topography, geology, and mineral and water resources. Three USGS programs are listed in this Guide.

The National Park Service administers a number of federal historic preservation funding programs. One such program, The National Center for Preservation Technology and Training Program, is listed below.

For general information about DOI or one of its bureaus or offices, please visit DOI's homepage.
<http://www.doi.gov>

Contact Information:

U.S. Department of the Interior
1849 C Street, N.W.
Washington, D.C. 20240
Phone: (202) 208-3100

Federal Technology Funding Guide

2006

Earthquake Hazards Reduction Program

Deadline: Varies (Usually Late Spring)

Federal Agency: Department of Interior, U.S. Geological Survey (USGS).

Purpose: To mitigate earthquake losses by providing earth science data and assessments essential for warning of imminent damaging earthquakes, land-use planning, engineering design, and emergency preparedness decisions.

Focus: R&D, eventual product commercialization.

Award Range: \$15,000 to \$75,000

Award Average: \$40,000

Total Budget: FY 07 est. \$5.5M

Contact:

Elizabeth Lemersal
Coordinator, External Research
U.S. Geological Survey
National Center
12201 Sunrise Valley Drive, Mail Stop 905A
Reston, VA 20192
(703) 648-6722 (ph)
(703) 648-6642 (fax)
lemersal@usgs.gov

Program Website Address: National Earthquake Hazards Reduction Program,
<http://erp-web.er.usgs.gov>

Deadline: Varies. Check program website for current deadline.

Application Procedures/Forms: Please refer to the DOI's "Guide for the Submission of Unsolicited Proposals" for help at <http://www.usgs.gov/contracts/unsolbk.html>.

SF-424 required, posted on the USGS website at <http://www.usgs.gov/contracts/index.html>
Full program description at <http://www.usgs.gov/contracts/nehrrp/>.

Approval/Disapproval Time: 3 to 6 months.

Application Results: The National Earthquake Hazards Reduction Program has funded projects covering recent tectonics and earthquake potential, research on earthquake occurrence and effects, and evaluation of regional and urban earthquake hazards.

Matching Requirements: None.

Evaluation Procedures: Proposals are divided into six research areas: Southern California, Northern California, Pacific Northwest, Central/Eastern U.S., National/Intermountain West, and Earthquake Physics and Effects. They are evaluated by a panel for the following criteria: relevance and timeliness, technical quality, P.I. qualifications, and appropriateness of the proposed budget.

Examples: Source zone characteristics; Earthquake monitoring and forecasting experiments; Induced seismicity studies; and Fault zone studies; and Seismic zonation and engineering studies.

Notes: The 25-year old program favors proposals with sound scientific arguments that closely follow program announcements. Also favored are those projects that relate to technology transfer. Private organizations comprise approximately one-third of successful proposals. Applicants are encouraged to write proposals according to two-year funding terms.

Federal Technology Funding Guide

2006

A number of FY2007 research priorities specific to each area can be found online at the program website.

Program Marketing and Solicitation:

Announcements for FY 07 are online (see program website). Also, the Federal Register; a mailing list of 3,000; and trade publications, sponsored research offices, and state agencies. Approximately 10,000 to 15,000 people have been reached through marketing efforts.

Catalog of Federal Domestic Assistance:

15.807

Federal Technology Funding Guide

2006

U.S. Geological Survey Research and Data Acquisition Program

Deadline: None

Federal Agency: Department of the Interior,
U.S. Geological Survey (USGS).

Purpose: To support research in any field of study that helps fulfill the Geological Survey's mission, which encompasses maps, databases, images, and descriptions and analyses of water, energy, and mineral resources, land use, and land cover, underlying geologic structure, and the dynamic processes of the earth.

Focus: Basic research.

Award Range: \$1,000 to \$582,000
Award Average: \$50,000
Total Budget: FY 05 \$33 M
FY 06 \$30 M
FY 07 \$30 M

Contacts:

Regional Director for Western Region
U.S. Geological Survey
345 Middlefield Road
Menlo Park, CA 94025
(650) 329-4011

Program Website Address:

www.usgs.gov/contacts
www.usgs.gov/contracts/grants/unsolbk.html

Deadline: None.

Application Procedures/Forms: Please refer to the DOI's "Guide for the Submission of Unsolicited Proposals" for help at <http://www.usgs.gov/contracts/unsolbk.html>

SF-424 required, posted on the USGS website at <http://www.usgs.gov/contracts/index.html>

Approval/Disapproval Time: 3 to 6 months.

Application Results: N/A

Matching Requirements: None, although cost-sharing is encouraged.

Evaluation Procedures: Internal review for scientific excellence and relevance to the USGS mission.

Examples: Cooperative mapping projects with States; support for various boards and committees of the National Academy of Science; and various earth science research projects.

Program Marketing and Solicitation: USGS program announcements are published in the Federal Register and online at <http://www.usgs.gov/contracts/>

Catalog of Federal Domestic Assistance:
15.808

Federal Technology Funding Guide

2006

National Spatial Data Infrastructure Cooperative Agreements Program

Deadline: Varies

Federal Agency: Department of the Interior,
U.S. Geological Survey (USGS).

Purpose: To help the Federal Geographic Data
Committee form partnerships with the
nonfederal sector that will further the
development and implementation of the
National Spatial Data Infrastructure (NSDI).

Focus: Basic research.

Award Range: \$20,000 to \$75,000

Award Average: \$29,000

Total Budget: FY 04 est. \$1.0 M
FY 05 est. \$1.3 M
FY 06 est. \$1.5 M

Contacts:

U.S. Geological Survey, National Center
Federal Geographic Data Committee
Secretariat
12201 Sunrise Valley Drive, Mail Stop 590
Reston, VA 20192
(703) 648-5514 (ph)
(703) 648-5755 (fax)
gdc@usgs.gov

Program Website Address:

Federal Geographic Data Committee
<http://www.fgdc.gov/funding/funding.html>

Deadline: Varies. Check program website for
the latest deadline.

Application Procedures/Forms: Please refer to
the DOI's "Guide for the Submission of

Unsolicited Proposals" for help at
<http://www.usgs.gov/contracts/unsolbk.html>
SF-424 required, posted on the USGS website
at <http://www.usgs.gov/contracts/index.html>

Approval/Disapproval Time: 4 to 6 months.

Matching Requirements: There is no statutory
formula. However, the recipients are expected
to cost-share depending upon the category of
project up to 100 percent of the amount of
funding received from the Federal Government.

Evaluation Procedures: Formal review panels
review proposals for quality, relevance to NSDI
goals, technical approach, level and diversity of
participation of the applicant, and project
sustainability.

Examples: A project to develop software tools
to aid in the collection, comparison, evaluation,
and maintenance of metadata; and a project to
develop data standards in partnership with the
Federal Geographic Data Committee.

Notes: For-profits must apply in conjunction
with at least one other organization or agency,
although partnerships with two are more
common.

Program Marketing and Solicitation: Agency
website, Catalog of Federal Domestic
Assistance.

Catalog of Federal Domestic Assistance:
15.809

Federal Technology Funding Guide

2006

National Center for Preservation Technology and Training Program

Deadline: Mid-December

Federal Agency: Department of the Interior,
National Park Service.

Purpose: To develop and distribute
preservation and conservation skills and
technologies for the conservation of historic
resources.

Focus: R&D.

Award Range: \$7,856 to \$50,000
Award Average: \$36,000
Total Budget: FY 04 \$336,356
FY 05 est. \$300,130
FY 06 est. \$300,000

Contacts:

Direct inquiries to PTT Grants:

Mary Striegel

NCPTT

645 College Ave.

Natchitoches, LA 71457

(318) 356-7444 ext. 256 (ph)

(318) 356-9119 (fax)

Mary_Striegel@nps.gov

Bob Ruff, Grants Administrator
Heritage Preservation Services Program
National Center for Cultural Resources
National Park Service
1201 Eye St. NW, MS2255
Washington, D.C. 20005
(202) 354-2088
bob_ruff@nps.gov

Call (318) 357-6464 to be placed on mailing
list.

Program Website Address: NCPTT,
<http://www.ncptt.nps.gov>

Deadline: None

Application Procedures/Forms: Applications
must follow NCPTT's *Guidelines for Preparing
PTT Grants Proposals* for each Project Type.
The Guidelines for each Project Type may be
obtained via World Wide Web site
<http://www.ncptt.nps.gov/> or NCPTT's return
e-mail system at pttgrants@ncptt.nps.gov

Approval/Disapproval Time: 90 to 180 days.

Application Results: As of FY2004, 72
proposals were received. A total of 9 grant
awards were made.

Matching Requirements: None.

Evaluation Procedures: NCPTT staff, peer
reviewers, and a designated NPS grants
administrator according to the project
feasibility and consistency with NPS financial
and policy requirements.

Examples: An investigation into the effects and
removal of methyl amino ethanol deposits on
painting media; the powered parachute as an
archaeological aerial reconnaissance vehicle;
and the development and testing of organic
coatings for the protection of outdoor bronze
sculpture from air-pollutant enhanced corrosion

Notes: Grants are usually geographically
distributed, and no recipient may receive more
than 10 percent of the awards allocated within
any year.

Federal Technology Funding Guide

2006

Program Marketing and Solicitation: Mailing list, program website, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
15.923

Federal Technology Funding Guide

2006

Department of Justice

The Department of Justice's main technology R&D arm is located within the National Institute of Justice (NIJ), which funds reassert, development, and evaluations that can lead to an understanding of the causes of crime and methods to control crime.

The NIJ has greatly expanded its initiatives since the passage of the Crime Act of 1994. The NIJ has begun a five-year program with the Department of Defense to develop dual-use technologies to support national defense and local law enforcement needs. The NIJ's "Reassert Plan" includes measures to improve law enforcement technology, including forensic activity, technology that halts criminals with less than lethal devices and practices, general science and technology measures to improve law enforcement, and drug testing devices. The three programs listed in this Guide both support the development of dual-use technologies and/or the improvement of law enforcement technology.

For information about Office of Justice Programs (OJP)' funding opportunities, visit OJP's web page (<http://www.ojp.usdoj.gov/fundopps.htm>).

For general NIJ grants questions, call the Department of Justice Response Center at (800) 421-6770.

Federal Technology Funding Guide

2006

Crime Victim Assistance/Discretionary Grants

Deadline: Varies

Federal Agency: Office of Justice Programs,
Office for Victims of Crime, Department of
Justice

Purpose: To provide assistance programs for
victims of mass violence and terrorism
occurring within and outside the United States
and a compensation program for victims of
international terrorism.

Focus: R&D.

Award Range: Varies
Award Average: Varies
Total Budget: FY 04 \$30.2 M
FY 05 est. \$29.9 M
FY 06 est. \$26.9 M

Contacts:

Office for Victims of Crime
Office of Justice Programs
Department of Justice
810 Seventh Street NW
Washington, DC 20531
(202) 307-5983 (ph)

Program Website Address:

<http://www.ojp.gov/ovc/>

Deadline: Deadlines are announced by OVC as
it releases solicitations throughout the fiscal
year. Information is available only on-line at
the OVC homepage. The established time
frames for funding are flexible and not intended
to prohibit the submission of applications at a
different time, if warranted. However,
applicants should make every available effort

to submit applications within the maximum
parameters of the grant (Crisis Response Grant,
up to 9 months; Consequence Management
Grant, up to 18 months; Criminal Justice
Support Grant, up to 36 months.) For the
International Terrorism Victim Compensation
Program, victims/claimants have up to 3 years
from the date a declaration that an act of
international terrorism has occurred to submit
an application for compensation.

Application Procedures/Forms: Applications
will be accepted following an incident of
terrorism or mass violence in accordance with
the timetable set forth in the Antiterrorism and
Emergency Assistance Program Guidelines.
Applications for the International Terrorism
Victim Compensation Program will be
accepted upon a determination that an act of
international terrorism has occurred.

Approval/Disapproval Time: From 4 to 6
months.

Application Results: N/A

Matching Requirements: There are no formula
or matching requirements for discretionary
funding, unless stated in the funding
applications. The State Victim Assistance
Academy grants require a 25 percent "in-kind"
match. The Tribal Victim Assistance
Discretionary Grants requires a 10 percent "in-
kind" match. Federal agencies are not expected
to provide a financial contribution, but in
general are asked to demonstrate a commitment
to continuing the funded effort after OVC
funding is terminated.

Evaluation Procedures: Antiterrorism and
Emergency Assistance Program Application
Kit and current edition of the OJP Financial
Guide, which are available by writing to Office

Federal Technology Funding Guide

2006

for Victims of Crime, Office of Justice Programs, Department of Justice, 810 Seventh Street, NW, Washington, D.C. 20531, or calling (202) 307-5983.

Examples: Potential projects include, but are not limited to: demonstrations programs that assist victims in rural communities or those programs meeting the needs of special populations such immigrant victims; training and technical assistance for States and local communities to help when responding to terrorism and mass violence; training to improve or expand victim services provided by particular groups of professionals such as judges, prosecutors, law enforcement professionals, and medical personnel.

Program Marketing and Solicitation: Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
16.582

Federal Technology Funding Guide

2006

Law Enforcement Assistance – FBI Crime Laboratory Support

Deadline: None

Federal Agency: Department of Justice

Purpose: To provide forensic services to the FBI; deploy effective communications collection, and surveillance capabilities to support investigative and intelligence; and provide assistance through research, training, technology transfer and access to information and forensic databases.

Focus: R&D.

Award Range: N/A
Award Average: N/A
Total Budget: FY 04 \$173.1 M
FY 05 est. \$167.1 M
FY 06 est. \$174.2 M

Contacts:

Director
Federal Bureau of Investigation
Department of Justice
Washington, DC 20535
(202) 324-3000 (ph)

Program Website Address:

www.fbi.gov

Deadline: None.

Application Procedures/Forms: For the application form, check out the FBI website, www.fbi.gov. Applications should be submitted to the FBI Laboratory.

Approval/Disapproval Time: N/A

Application Results: Nonfederal scientific examinations made in FY2001 totaled \$108,933, FY2002 \$65,354 and FY2003 is \$60,100.

Matching Requirements: None.

Evaluation Procedures: Internal review.

Examples: N/A

Catalog of Federal Domestic Assistances:
16.301

Federal Technology Funding Guide

2006

National Institute of Justice Research, Evaluation & Development Grants

Deadline: Anticipated Winter 2003

Federal Agency: Department of Justice;
National Institute of Justice

Purpose: To encourage and support research,
development, and evaluation to further
understand the causes and control of crime.

Focus: R&D.

Award Range: Not available
Award Average: Not available
Total Budget: FY 05 \$57.6 M
FY 06 est. \$54.1 M
FY 07 est. \$45.1 M

Contacts:

National Institute of Justice
Department of Justice
810 7th Street, NW
Washington, DC 20531
(202) 307-2942 (ph)
(202) 307-6394 (fax)

For general information and to be placed on a
mailing list, contact the NIJ Response Center:
(800) 421-6770.

Program Website Address:

<http://www.ojp.usdoj.gov/nij/>

Deadline: Program deadlines will be included
in the announcements of Requests for
Proposals in the Federal Register, on NIJ's
website, and on the NCJRS bulletin board and
in electronic and hard copy publications.

Application Procedures/Forms: General
information is provided in individual program
solicitations, which are obtained by sending a
self-addressed mailing label to NCJRS, Box
6000, Rockville, MD 20849-6000, or call toll
free to request a copy at (800) 851-3420.
Applications can also be found online through
the program website.

Approval/Disapproval Time: Approximately
180 days for full proposals and 60 days for
concept papers.

Application Results: N/A

Matching Requirements: None.

Evaluation Procedures: Program managers
review applications with external assistance,
considering the needs of the Institute's research
plan, on-going or prior studies, and the
particular promise of the proposal itself.

Examples: Priority is given to concerns such
as: violent crime, alcohol-and drug-related
crime, community crime prevention, criminal
justice system improvement, forensic science
research, and technology development.

Notes: This program has been in effect for the
past several years as the "Justice Research,
Development, and Evaluation Project
Grants." It is currently solicited as
"Investigator-Initiated Research." The funds
may be used to conduct R&D pertaining to the
stated purpose.

Program Marketing and Solicitation:

Commerce Business Daily, Federal Register,
Research Prospectus on NIJ website, NIJ Dear
Colleague letter.

Catalog of Federal Domestic Assistance:

Federal Technology Funding Guide

2006

16.560

Department of Transportation

The Department of Transportation (DoT) seeks to develop a safe, balanced transportation system. The Department's R&D funds are primarily mission-oriented toward meeting its goals.

There are ten operating administrations of the DoT. The programs cited in this section are separate projects funded by different administrations within the Department of Transportation, which are coordinated by The National Research Council. The National Research Council is an organization administered by three groups – the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine – that bring the entire scientific and technical community together to solve national transportation problems.

Five of the ten DoT administrations are currently involved in the grants programs listed in this guide: Federal Aviation, Federal Highway, Federal Railroad, National Highway Traffic Safety, and Transit Administrations. The DoT's main transportation technology R&D program is the IDEA Program, which works across four of these administrations.

The Volpe National Transportation Systems Center, which is part of DOT's Research and Special Programs Administration (RSPA), also solicits proposals on a case-by-case basis to meet the needs of the agencies; no regularly scheduled programs for for-profit corporations exist. The Volpe Center has fostered innovation and technology transfer by promoting communication among government, industry, and academic participants in transportation enterprises. It is an excellent source for businesses (<http://www.volpe.dot.gov/>).

For general information, write to:

U.S. Department of Transportation
400 7th Street, SW
Washington, DC 20590
Phone: (202) 366-4000

Federal Technology Funding Guide

2006

Aviation Research Grants Program

Deadline: Varies

Federal Agency: Department of Transportation; Federal Aviation Administration, Office of Aviation Research.

Purpose: To encourage and support innovative and advanced research in areas of potential benefit to long-term growth in civil aviation.

Focus: R&D, some commercialization.

Award Range: \$25,000 to \$5.0 M
Award Average: est. \$100,000
Total Budget: FY 04 \$30.0 M
FY 05 \$30.0 M
FY 06 est. \$30.0 M

Contacts:

Aviation Research Grants Program, ACT-50
Federal Aviation Administration
William J. Hughes Technical Center
Atlantic City International Airport, NJ 08405
(609) 485-4424 (ph)
(609) 485-6509 (fax)

Grants Hotline: (609) 485-8410.

Program Website Address:

<http://www.tc.faa.gov/logistics/grants/>

Deadline: Open until notification of closure in Federal Register or website.

Application Procedures/Forms: Write to the Office of Research and Technology at the address listed above for a solicitation and application kit. Information is also available at the Program website.

Approval/Disapproval Time: Applicants should allow at least 120 days for review and processing.

Application Results: Located on the website

Matching Requirements: None, although cost-sharing is highly encouraged.

Evaluation Procedures: After an initial administrative review, external technical review by a minimum of three experts for technical merit. For evaluation criteria have been established, which include: intrinsic value, relevance to the FAA mission, technical soundness, and research performance competence.

Examples: R&D in satellite navigation; aircraft structural mechanics and materials; de-icing fluids; and aviation security.

Notes: For-profit businesses can only apply for funding for System Security Technology Research grants. Program offices fund cooperative agreements to their needs.

Program Marketing and Solicitation: The solicitation is available on the FAA Technical Center anonymous server ftp, Federal Register, and Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
20.108

Federal Technology Funding Guide

2006

Innovations Deserving Exploratory Analysis (IDEA) Program

Deadline: None

Federal Agency: Dept. of Transportation; this program is managed by the Transportation Research Board of the National Research Council, part of the National Academies.

Purpose: To provide supplemental funding to promote development of innovative products and methodologies that address critical transportation issues in four broadly specified areas: Transit; High-Speed Rail (HSR), Highways (NCHRP), and Intelligent Transportation Systems (ITS).

Focus: Technology applications.

Award Range: \$100,000 to \$7.0 M
Award Average: \$250,000
Total Budget: FY 05 \$21.5 M
FY 06 \$21.5 M
FY 07 est. \$20 M

Contacts:

Debbie Irvin
IDEA Program
The Keck Center K W401
500 Fifth Street NW
Washington, DC 20001
(202) 334-3310 (ph)
(202) 334-3471 (fax)
dirvin@nas.edu

Safety-IDEA
Harvey Berlin
(202) 334-2441
hberlin@nas.edu

HSR-IDEA
Chuck Taylor
(202) 334-2065
ctaylor@nas.edu

NCHRP-IDEA
Inam Jawed
(202) 334-1461
ijawed@nas.edu

Transit-IDEA
Harvey Berlin
(202) 334-2441
hberlin@nas.edu

Program Website Address:

http://www4.trb.org/trb/dive.nsf/web/idea_programs

Deadline: There are two review cycles each year, starting on March 1 and Sept. 1. Proposals may be received by these dates.

Application Procedures/Forms: Forms and a proposal format description are available on the website or by contacting the IDEA office.

Approval/Disapproval Time: 4 months to complete the review process, 6 months total to start work.

Application Results: From around 150 proposals received each year, typically 10% of them are funded.

Matching Requirements: None, although cost-sharing is strongly encouraged and very common.

Evaluation Procedures: Panels of expert volunteers from the field screen receive proposals and make recommendations to governing committee for the four program

Federal Technology Funding Guide

2006

areas. These committees make the final selections and the program staff negotiates award contracts based on the proposal and on modifications suggested by the committees.

Examples: Fiber-reinforced polymer short-span bridge for rapid installation; customer satisfaction for mass transit, vehicle ranging with infrared sensors for intelligent cruise control; and low-cost inertial position sensor for locomotives.

Notes: IDEA focuses on selecting projects that have potential to alleviate transportation problems of concern to ground transportation agencies. Support for aviation and maritime projects are not available. IDEA emphasizes development of specific innovative approaches, either new applications or novel transfers from other fields. The goal is to support development of products and methodologies that have too much technical or market risk to attract funding elsewhere. Basic research without application goals and surveys of technology solutions to general problems do not qualify. Contracts are fixed-price grants with milestones and reporting requirements. IDEA funding:

- 1) **HSR-IDEA:** The HSR-IDEA program solicits proposals for innovative concepts and technologies that will help attain the goal of cost-effective upgrading of current rail infrastructure for high-speed passenger travel and lead to a viable high-speed rail transportation system in the United States. HSR-IDEA projects are selected based on their potential to support upgrading the existing U.S. rail system to accommodate operations of 125 mph and beyond. HSR-IDEA is funded by the Federal Railroad Administration in support of the next-generation high-speed rail technology development program.
- 2) **Safety-IDEA:** The Safety IDEA program is jointly sponsored by the Federal Motor Carrier Safety Administration and the Federal Railroad Administration. The U.S. Department of Transportation has set aggressive goals for reducing fatalities and injuries by the year 2010. To this end, the sponsors have provided funding for projects that promote innovative approaches to improving railroad, intercity bus, and truck safety. The program encompasses vehicle improvements, operator performance, and alertness improvements; operational practices; and hazard reduction, among other interest areas.
- 3) **NCHRP-IDEA:** A project of the National Cooperative Highway Research Program (NCHRP), the NCHRP Highway IDEA program seeks proposals with potential to advance the construction, safety, maintenance, and management of highway systems. The program is jointly sponsored by the Federal Highway Administration and the member states of the American Association of State Highway and Transportation Officials.
- 4) **Transit-IDEA:** The Transit IDEA Program is part of the Transit Cooperative Research Program, a cooperative effort of the Federal Transit Administration (FTA), the Transportation Research Board (TRB), and the Transit Development Corporation (a nonprofit educational and research organization of the American Public Transportation Association). The program is funded by the FTA and is managed by TRB.

Federal Technology Funding Guide

2006

Program Marketing and Solicitation: Program announcements are available on the website and at selected conferences.

Catalog of Federal Domestic Assistance: 20.312 for the High-Speed Rail IDEA Program.

Environmental Protection Agency

The Environmental Protection Agency's mission is to protect public health and the environment. A large percentage of the Agency's R&D funds are targeted toward basic research performed by non-profit and academic institutions. In a few select instances, businesses are eligible to apply for funds, although often as subcontractors for the various EPA offices. Businesses will need to check individual RFAs and RFPs for eligibility criteria.

The National Center for Environmental Research (NCER), EPA's central grants administration center, operates competitive, peer reviewed, extramural investigator-initiated research grants programs to foster innovative and far reaching scientific projects. NCER currently maintains a series of e-mail lists that anyone can join to automatically receive announcements of grant and funding opportunities.

For information, call the NCER's grants hotline at (800) 490-9194.

Of the three EPA programs listed here, the SITE Program is by far the most specific and unusual; hazardous waste demonstration sites, not businesses, apply. It is included in this Guide because interested businesses can still benefit by partnering with a particular site to test a particular technology. The other two programs, the Consolidated Research, and Surveys, Studies and Investigations are both general in nature and can be viewed as large umbrella entities that house a number of smaller, constantly changing environmental programs. Consult the EPA's Office of R&D website at <http://www.epa.gov/ord> for more information.

Federal Technology Funding Guide

2006

Surveys, Studies, Investigations and Special Purpose Assistance

Deadline: None

Federal Agency: Environmental Protection Agency.

Purpose: To develop pollution control techniques for air quality, acid deposition, drinking water, hazardous waste, toxic substances, and pesticides.

Focus: R&D.

Award Range: \$5,000 to \$500,000
Award Average: \$100,000
Total Budget: FY 05 \$8.9 M
FY 06 \$6.7 M
FY 07 est. \$6.7 M

Grants Contacts:

Environmental Protection Agency
Grants Administration Division, MC 3903R
1200 Pennsylvania Ave. NW
Washington, D.C. 20460
(202) 564-5310 (ph)

Program Contact:

Office of Air and Radiation
Katherine Moore, (202) 564-1514

Office of Water
Kimberly Roy, (202) 564-4633

Office of R&D
Mark Thomas, (202) 564-4763

Office of Administration
Shirley Leonard, (202) 564-1347

Office of Solid Waste and Emergency
Response Julianne Edmondson, (202) 260-0251

Office of Environmental Justice
Linda Smith, (202) 564-2602

Office of Compliance and Enforcement
Joseph Hall, (202) 564-2271

Office of International Affairs
Teresa Ruppe, (202) 564-6619

Office of Prevention, Pesticides and Toxic
Substances
Elaine Lyon-Johnson, (202) 564-0547
Janet Remmers, (202) 564-0548

Program Website Address: www.epa.gov

Deadline: None, unless applications are submitted in response to calls for proposals or requests for applications which include deadlines.

Application Procedures/Forms: SF 424. Requests for application kits must be submitted to the Environmental Protection Agency, Grants Administration Division, MC 3903R, Washington, DC 20460.

Approval/Disapproval Time: Approximately 180 days.

Application Results: EPA granted 1,616 awards in FY2002. The total dollar amount for these awards was \$529,087,239.

Matching Requirements: None.

Evaluation Procedures: Administrative and technical review by the grants and program offices.

Federal Technology Funding Guide

2006

Examples: Developing a reporter's guide to climate change; development of solid waste system for Indian tribes; lead-based workshops; and radon information for real estate companies.

Notes: **This program is not really a “program” but a broad entity that houses a variety of different programs within it, across various EPA offices—the Office of Air and Radiation, Office of Water, Office of R&D, and Office of Solid Waste and Emergency Response. Consult the EPA Grants web page periodically for an updated listing of solicitations:**
<http://www.epa.gov/ogd/>

Program Marketing and Solicitation:
Commerce Business Daily, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
66.510

Federal Technology Funding Guide

2006

National Science Foundation

The National Science Foundation (NSF) funds research (often, basic research) as part of its mission to advance scientific and engineering progress in the U.S. NSF funds a vast array of scientific activity, ranging from materials research to physics to astronomy and ocean sciences.

Small businesses can win awards from NSF's ongoing programs. However, most small businesses with strong scientific capability receive funding from NSF through the Small Business Innovation Research grants program. All ongoing programs, and most special projects, require a cost-share. Solicited programs are posted through the NSF bulletin and "Dear Colleague" letters; these can be accessed through the NSF homepage on the World Wide Web: <http://www.nsf.gov>. For small businesses, the first point of contact should often be the SBIR program managers.

Non-SBIR funding opportunities exist in five directorates within the NSF, all of which are involved in R&D activities: the Biological Sciences, Computer and Information Science and Engineering, Engineering Grants, Geosciences, and Mathematical and Physical Sciences Programs.

The NSF maintains a comprehensive website which contains up to date information and forms, at <http://www.nsf.gov/home/grants.htm> General information about NSF programs may be found in the NSF Guide to Programs at <http://www.nsf.gov/od/lpa/news/publicat/nsf03009/start.htm> (FY 03) and the E-Bulletin at <http://www.nsf.gov/home/ebulletin/edaily.htm>, which covers new developments.

For general information:

National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230
Phone: (703) 292-5111

Federal Technology Funding Guide

2006

Biological Sciences Program

Deadline: Varies

Federal Agency: National Science Foundation, Biological Sciences Directorate.

Purpose: Primarily basic research focused on molecular and cellular biosciences, integrated technology and neuroscience, environmental biology instrumentation and resources.

Focus: Basic research.

Award Range: \$2,000 to \$12.4 M
Award Average: \$184,000
Total Budget: FY 05 \$576.8 M
FY 06 est. \$576.7 M
FY 07 est. \$607.9 M

Contacts:

Mary E. Clutter, Assistant Director
Biological Sciences
National Science Foundation
4201 Wilson Blvd., Suite 605
Arlington, VA 22230
(703) 292-8400 (ph)
(703) 292-9154 (fax)
mclutter@nsf.gov

Biological Infrastructure:
Machi F. Dilworth, Division Director
(703) 292-8470 (ph)
mdilwort@nsf.gov

Environmental Biology:
Michael Willig, Division Director
(703) 292-8480 (ph)
mwillig@nsf.gov

Integrative Organismal Biology
Thomas Brady, Division Director
(703) 292-8420 (ph)
tbrady@nsf.gov

Molecular & Cellular Biosciences:
Maryanna P. Henkart, Division Director
(703) 292-8440 (ph)
mhenkart@nsf.gov

Plant Genome Research:
Jane Silverthorne, Program Director
(703) 292-8470 (ph)
jsilvert@nsf.gov

Program Website Address: Directorate for Biological Sciences,
<http://www.nsf.gov/bio/>

Deadline: Deadlines and target dates are published in the NSF bulletin.

Application Procedures/Forms: Submit a formal proposal describing the research or study to the address shown above. Guidelines are contained in publications, "Grant Proposal Guide," NSF 01-2, "Guide to Programs FY 2004" NSF 01-3.

Approval/Disapproval Time: 6 months.

Application Results: In FY2003, 5,591 proposals were received and 1,448 competitive awards were given. In FY2004, approximately 1,443 awards were awarded. Approximately 1,404 awards will be given in FY2005.

Matching Requirements: None.

Evaluation Procedures: Evaluations are

Federal Technology Funding Guide

2006

completed through external peer review. Proposals are granted in order of merit to the extent permitted by available funds.

Examples: The role of habitat heterogeneity in stream ecosystems; development of a micro-scale protein sequencing system; and genomics of plant stress tolerance.

Notes: Like most NSF programs, most awards are won by academia for basic research. Businesses with strong capabilities in science may receive awards, but most small businesses win SBIR awards.

For more detailed program information, investigate the NSF home page for the NSF Guide to Programs.

Program Marketing and Solicitation:
Agency website, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
47.074

Federal Technology Funding Guide

2006

Computer and Information Science and Engineering Program

Deadline: Varies

Federal Agency: National Science Foundation, Directorate for Computer and Information Science and Engineering.

Purpose: To further develop state-of-the-art computational techniques, current emphasis are on advanced computational infrastructure research, computer communications research, information and intelligence systems, and networking.

Focus: R&D.

Award Range: \$2,000 to \$19.0 M
Award Average: \$136,000
Total Budget: FY 05 \$490.2 M
FY 06 est. \$496.4 M
FY 07 est. \$526.7 M

Contacts:

Shared Cyberinfrastructure:
Sangtae Kim, Director
(703) 292-8970, skim@nsf.gov

Information and Intelligence Systems:
Michael J. Pazzani, Director
(703) 292-8930, siacono@nsf.gov

Computer and Network Systems:
Irene D. Lombardo
(703) 292-8930, mpazzani@nsf.gov

Computing & Communication Foundations:
Michael J. Foster, Director
(703) 292-8910, mfooster@nsf.gov

Program Website Address: Directorate for

Computer and Information Science and
Engineering, <http://www.cise.nsf.gov/>

Deadline: Deadlines and target dates are available on program announcements and on NSF home page.

Application Procedures/Forms: Proposals submitted to the Computer and Information Science and Engineering Directorate should follow the general instructions and guidelines in the National Science Foundation brochure "Grant Proposal Guide," NSF 01-2.

Approval/Disapproval Time: 6 months or less.

Application Results: N/A

Matching Requirements: Institutions are required to cost-share, although the program has no statutory formula.

Evaluation Procedures: Peer review by NSF staff members with assistance of outside scientists and engineers.

Examples: A project exploring the systems architecture of high-end computers based on cache-only memory architectures; and a project to explore how to significantly increase the information density in optical recording.

Notes: Like most NSF programs, most awards are won by academia for basic research. Businesses with strong capabilities in science may win awards, but most small businesses win SBIR awards. For more detailed program information, investigate the NSF home page for the NSF Guide to Programs.



Federal Technology Funding Guide 2006

Program Marketing and Solicitation: NSF
Bulletin, Dear Colleagues letters, Agency
website, CFDA.

Catalog of Federal Domestic Assistance:
47.070

Federal Technology Funding Guide

2006

Engineering Grants Program

Deadline: Varies

Federal Agency: National Science Foundation, Directorate for Engineering.

Purpose: To invest in the creation of new engineering knowledge.

Focus: R&D.

Award Range: \$5,000 to \$4.0 M
Award Average: \$120,000
Total Budget: FY 05 \$557.1 M
FY 06 est. \$580.9 M
FY 07 est. \$628.6 M

Contacts:

Bioengineering and Environmental Systems:
Bruce Hamilton, Director
(703) 292-8320, bhamilto@nsf.gov

Civil & Mechanical Systems:
A. Galip Ulsoy, Director
(703) 292-8360, aulsoy@nsf.gov

Design, Manufacture & Industrial
Innovation:
Warren Devries, Director
(703) 292-8330, wdevries@nsf.gov

Electrical & Communications Systems:
Lawrence S. Goldberg, Director
(703) 292-8339, lgoldber@nsf.gov

For information and publications:
Dr. Donald Senich
Directorate for Engineering, NSF
4201 Wilson Blvd., Arlington, VA 22230
(703) 306-7082 (ph)
dsenich@nsf.gov (general inquiries)

Program Website Address: Dir. for Engineering,
<http://www.nsf.gov/home/eng/>

Deadline: Proposals are received on an ongoing basis. Special grants do have deadlines. Applicants should contact the program office for dates on specific programs.

Application Procedures/Forms: Preliminary discussion with a relevant NSF officer, by mail or phone, is encouraged. To order publications or forms, send an email to pubs@nsf.gov or telephone (301) 947-2722. Also obtain individual forms from the NSF.

Approval/Disapproval Time: 3 to 7 months.

Matching Requirements: A minimum cost-sharing of one-third of total costs is required for equipment grants. Some cost-sharing is also expected for Engineering Research Centers and Industry/University Cooperative Research Centers.

Evaluation Procedures: Peer review by NSF Staff members with assistance of outside scientists and engineers.

Examples: Nanostructural engineering of complex functional particles; a multiple shake table earthquake engineering research facility; rapid fabrication of non-assembly mechanisms with embedded components; development of biosensors for rapid screening; mechanical heart valve testing; and internally mounted engines for aircraft of the future.

Notes: Like most NSF programs, most awards are won by academia for basic

Federal Technology Funding Guide

2006

research. Businesses with strong capabilities in science may win awards, but most small businesses win SBIR awards.

For more detailed program information, investigate the NSF home page for the NSF Guide to Programs.

Program Marketing and Solicitation: NSF Bulletin, Dear Colleagues letters, Agency website, Catalog of Federal Domestic Assistance.

Catalog of Federal Domestic Assistance:
47.041

Federal Technology Funding Guide

2006

Geosciences Program

Deadline: Varies

Federal Agency: National Science Foundation, Directorate for Geosciences.

Purpose: To support basic research in atmospheric, earth, and ocean sciences.

Focus: Basic research.

Award Range: \$1,000 to \$60.0 M
Award Average: \$147,857
Total Budget: FY 05 \$697.2 M
FY 06 est. \$702.8 M
FY 07 est. \$744.9 M

Contacts:
National Science Foundation
4201 Wilson Blvd.
Arlington, VA 22230

Atmospheric Sciences:
Jarvis L. Moyers, Director
(703) 292-8520 (ph)
(703) 292-9022 (fax)
jmoyers@nsf.gov
Earth Sciences:
Herman B. Zimmerman, Director
(703) 292-8550 (ph)
(703) 292-9025 (fax)
hzimmerm@nsf.gov

Ocean Sciences:
Brian Midson, Director
(703) 292-8580 (ph)
(703) 292-9085 (fax)
bmidson@nsf.gov

Program Website Address: Directorate for the Geosciences, <http://www.geo.nsf.gov/>

Deadline: Deadlines vary and are published in the NSF Bulletin online.

Application Procedures/Forms: Preliminary discussion with a relevant NSF officer, by mail or phone, is encouraged. *NSF no longer accepts paper-based proposal submissions.* Check with the Program website for submission procedures.

Approval/Disapproval Time: 90 to 180 days.

Application Results: In FY2003, 4,230 proposals were received and 1,515 awards were given. In FY2004, about 4,230 proposals were received and approximately 1,515 awards will be granted. In FY2005, approximately 4,230 proposals are expected and approximately 1,515 awards will be made.

Matching Requirements: None.

Evaluation Procedures: Peer review by NSF Staff members with assistance of outside scientists and engineers.

Examples: Atmospheric Sciences: research on meteorology, climate, paleoclimate, chemistry and physics of the lower and upper atmosphere, and solar-terrestrial relationships.

Earth Sciences: research on structure, composition, history, and the physical, chemical, and biological processes affecting the earth.

Ocean Sciences: research on physical, chemical, geological, and biological processes in the ocean.

Federal Technology Funding Guide

2006

Notes: Like most NSF programs, most awards are won by academia for basic research. Businesses with strong capabilities in science may win awards, but most small businesses win SBIR awards.

For more detailed program information, investigate the NSF home page for the NSF Guide to Programs.

Program Marketing and Solicitation: NSF Bulletin, Dear Colleagues letters, Agency website, CFDA.

Catalog of Federal Domestic Assistance:
47.050

Federal Technology Funding Guide

2006

Mathematical and Physical Sciences Program

Deadline: None

Federal Agency: National Science Foundation, Office of R&D.

Purpose: To support primary basic research in physics, chemistry, astronomy, mathematics, and material research.

Focus: Basic research.

Award Range: \$10,000 to \$45.0 M

Award Average: \$130,100

Total Budget: FY 05 \$1.0 B
FY 06 est. \$1.1 B
FY 07 est. \$1.1 B

Contacts:

Assistant Director for Mathematical and Physical Sciences Division:
4201 Wilson Blvd.
Arlington, VA 22230
(703) 292-8801

Astronomical Sciences:
Dr. G. Wayne Van Citters, Director
(703) 292-4908, gvancitt@nsf.gov

Chemistry:
Arthur B. Ellis, Director
(703) 292-4960, aellis@nsf.gov

Physics:
Dr. Joseph Dehmer, Director
(703) 292-7370, jdehmer@nsf.gov

Materials Research:
Thomas A. Weber, Director
(703) 292-4915, tweber@nsf.gov

Mathematical Sciences
William Rundell
(703) 292-5301, wrundell@nsf.gov

Program Website Address: Directorate for the Mathematical and Physical Sciences, <http://www.nsf.gov/dir/index.jsp?org=MPS>

Deadline: Most programs now have formal announcements with deadlines. Check the program website.

Application Procedures/Forms: Preliminary discussion with a relevant NSF officer, by mail or phone, is encouraged. A formal proposal is submitted to NSF describing the research or study to be undertaken. Submission of proposals via the FastLane electronic proposal submission system is required for all programs. See the NSF homepage.

Approval/Disapproval Time: 4 to 6 months.

Matching Requirements: None.

Evaluation Procedures: Peer review by NSF Staff members with assistance of outside scientists and engineers.

Examples: The Directorate supports a research scope of enormous range. Some projects include: electronic properties of amorphous semiconductors; a phase-binning CCD camera for optical pulsar detection; and the geometry of duality in mathematics and physics.

Notes: Like most NSF programs, most awards are won by academia for basic research. Businesses with strong capabilities in science may win awards, but most small

Federal Technology Funding Guide

2006

businesses win SBIR awards.

For more detailed program information, investigate the NSF home page for the NSF Guide to Programs.

Program Marketing and Solicitation: NSF Bulletin, Dear Colleagues letters, Agency website, CFDA.

Catalog of Federal Domestic Assistance:
47.049

Federal Technology Funding Guide

2006

Polar Programs

Deadline: Varies

Federal Agency: National Science Foundation.

Purpose: To strengthen and enhance the national scientific enterprise through the expansion of fundamental knowledge and increased understanding of the polar regions. To encourage and support basic research in the Arctic and Antarctic focused on the solid earth, glacial and sea ice, terrestrial ecosystems, the oceans, the atmosphere and beyond.

Focus: Basic research.

Award Range: \$1,000 to \$5.0 M
Award Average: \$180,500
Total Budget: FY 05 \$122.5 M
FY 06 est. \$118.8 M
FY 07 est. \$148.0 M

Contacts:

Karl A. Erb, Director
Office of Polar Program
National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230
(703) 292-8030
kerb@nsf.gov

Polar Research:
Mr. Erick Chiang
Section-head
(703) 292-8032 (ph)
(703) 292-9080 (fax)
echiang@nsf.gov

Arctic Sciences:

Dr. Thomas Pyle, Section Head
(703) 292-8029 (ph)
(703) 292-9082 (fax)
tpyle@nsf.gov

Antarctic Sciences:
Scott G. Borg, Section Head
(703) 292-8033 (ph)
(703) 292-9079 (fax)
sborg@nsf.gov

Program Website Address: National Science Foundation,
<http://www.nsf.gov/dir/index.jsp?org=OPP>

Deadline: Varies. Check program website for latest deadlines.

Application Procedures/Forms: Preliminary discussion with a relevant NSF officer, by mail or phone is encouraged. A formal proposal is submitted to NSF describing the research or study to be undertaken. Guidelines are contained in the publication, "Grant Proposal Guide," NSF 01-2, and "Guide to Programs FY 2004," NSF 01-3.

Approval/Disapproval Time: 90 to 180 days.

Application Results: In FY2003, 557 proposals were received and 241 were granted awards. In FY2004, it is estimated that 565 will be received and 254 will be awarded. In FY2005, about 700-800 proposals are expected and approximately 200-300 awards will be made.

Matching Requirements: None.

Evaluation Procedures: Merit review by outside scientists and engineers.

Federal Technology Funding Guide

2006

Examples: Investigations of atmospheric, earth, biological and ocean sciences, glaciology in the Arctic and the Antarctic, and of social sciences in the Arctic.

Notes: Like most NSF programs, most awards are won by academia for basic research. Businesses with strong capabilities in science may win awards, but most small businesses win SBIR awards.

For more detailed program information, investigate the NSF home page for the NSF Guide to Programs.

Program Marketing and Solicitation: NSF Bulletin, Dear Colleagues letters, Agency website, CFDA.

Catalog of Federal Domestic Assistance:
47.078

Federal Technology Funding Guide

2006

Social, Behavioral, and Economic Sciences

Deadline: Varies

Federal Agency: National Science Foundation.

Purpose: The program includes support of research project grants in the following disciplines: Anthropological and geographic sciences; cognitive, psychological and language sciences; economic, decision and management sciences; social and political sciences; infrastructure, methods and science studies, as well as international projects.

Focus: Basic research.

Award Range: \$1,100 to \$4.98 M
Award Average: \$85,395
Total Budget: FY 05 \$196.8 M
FY 06 est. \$199.9 M
FY 07 est. \$213.8 M

Contacts:

Wanda E. Ward, Assistant Director
Office of Social, Economic, and Behavioral
Sciences Program
National Science Foundation
4201 Wilson Boulevard, Suite 935
Arlington, VA 22230
(703) 292-8741 (ph)
weward@nsf.gov

Behavioral and Cognitive Sciences:
Marguerite (Peg) Barratt, Director
(703) 292-8740 (ph)
(703) 292-9068 (fax)
mbarratt@nsf.gov

Science Resources Statistics:

Lynda T. Carlson, Director
(703) 292-7766 (ph)
(703) 292-9092 (fax)
lcarlson@nsf.gov

International Science and Engineering:

Kerri-Ann Jones, Director
(703) 292-8710 (ph)
(703) 292-9067 (fax)
kajones@nsf.gov

Social and Economic Sciences

Richard Lempert, Director
(703) 292-8760 (ph)
(703) 292-9068 (fax)
rlempert@nsf.gov

Program Website Address: National Science Foundation,
<http://www.nsf.gov/dir/index.jsp?org=SBE>

Deadline: Varies. Check program website for latest deadlines.

Application Procedures/Forms: Preliminary discussion with a relevant NSF officer, by mail or phone is encouraged. A formal proposal is submitted to NSF describing the research or study to be undertaken. Guidelines are contained in the publication, "Grant Proposal Guide," NSF 01-2, and "Guide to Programs FY 2004," NSF 01-3.

Approval/Disapproval Time: 5-9 months.

Application Results: In FY2003, 4,161 competitive proposals were received and 1,267 awards were made. In FY2004, approximately 4,250 competitive proposals will be received and about 1,265 awards will be given. In FY2005, approximately 4,379

Federal Technology Funding Guide

2006

competitive proposals will be received and about 1,276 awards will be made.

Matching Requirements: None.

Evaluation Procedures: Merit review by outside scientists and engineers.

Examples: Indicators for the information society; indicators of technology-based competitiveness: incorporating recent changes in the concept 'high technology' and in data availability; privately provided public goods: theoretical, econometric and experimental studies of cooperation; and distributive justice norms in marriages.

Notes: Like most NSF programs, most awards are won by academia for basic research. Businesses with strong capabilities in science may win awards, but most small businesses win SBIR awards.

For more detailed program information, investigate the NSF home page for the NSF Guide to Programs.

Program Marketing and Solicitation: NSF Bulletin, Dear Colleagues letters, Agency website, CFDA.

Catalog of Federal Domestic Assistance: 47.075

Federal Technology Funding Guide

2006

Website Index

This index contains a listing of federal departments and agencies, SBIR/STTR, and program websites (if they exist). It also contains addresses to a number of other useful business and technology development sites. This is not a comprehensive listing. The Business and Funding sites are listed in no particular order.

Business and Funding Websites

Site	Address
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Catalog of Federal Domestic Assistance	http://www.cfda.gov/
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The Catalog of Federal Domestic Assistance (CFDA) is a government-wide compendium of Federal programs, projects, services, and activities that provide assistance or benefits to the American public.

Federal Register	www.gpoaccess.gov/fr/index.html
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The government's official daily publication. Posts federal agency solicitations, Requests for Proposals, Requests for Applications, etc.

Federal Funding on the Internet	http://www.library.wisc.edu/libraries/Memorial/grants/fedfund.htm
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A list of Internet links to federal funding databases, information networks, and specific government granting agencies. Much of the information is for research funding.

U.S. Government Services Administration	http://www.gsa.gov/
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The federal management agency which provides workspace, security, furniture, equipment, supplies, tools, computers, and telephones. GSA also provides travel and transportation services

Federal Money Retriever	http://www.fedmoney.com/
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Product for sale. A database package offering the most current information on over 1,300 federal funding programs.

DOE Technology Information Network: Federal Funding Opportunities	http://www.lanl.gov/worldview/
--	---

Federal links targeted for the development of scientific products that will help enhance national security.

Federal Technology Funding Guide

2006

RAMS-FIE

<http://www.researchresearch.com>

Provides electronic solutions for the research community; includes FEDIX and MOLIS services.

USC Engineering Technology Transfer Center

<http://ttc.usc.edu/>

A "knowledge transfer organization" which helps businesses with new product identification, licensing, funds sourcing, networking opportunities, and needs assessments.

Council on Int'l Business Develop., Business Services Div.

<http://www.nd.edu/~ndcibd/html/business.html>

Established by the University of Notre Dame. Aids organizations seeking to expand into global markets, and serves both small and large corporations through consultancy work and international market research.

Industrial Research Institute

<http://www.iriinc.org>

Membership and dues required. Studies problems encountered by industrial research and innovation. Primarily educational and informational.

Internet Resources for Entrepreneurs

<http://pasbdc.org/information>

Pennsylvania's Small Business Development Center. Links to general business assistance sites.

National Technology Transfer Center

<http://www.nttc.edu/default.asp>

A full service commercialization and technology center.

SBIR Interactive Topic Information System (SITIS)

<http://www.dodsbir.net/sitis>

An online service allowing small businesses to send in questions regarding specific SBIR solicitations.

Who's Who in Federal Grants Management

<http://www.hhs.gov/grantsnet/whoswho.htm>

HHS' listing of the names and phone numbers of all federal grants management contacts.

California Statistical Abstract – October 2001

http://www.dof.ca.gov/html/fs_data/stat-abs/sa_home.htm

A compilation of data on social, economic and physical aspects of the State of California.

Manufacturing Extension Partnership

<http://www.mep.nist.gov/>



Federal Technology Funding Guide

2006

A nationwide network of more than 70 non-profit Centers whose sole purpose is to provide small and medium-sized manufacturers with business assistance.

Knowledge Express

<http://www.knowledgeexpress.com/>

Service for sale. Provides instant access to emerging technology, market results, contacts, funding, and venture capital. Allows users to hypersearch across all resources easily and efficiently with a single search request

Larta Institute, the think tank for technology business <http://www.larta.org/>

Programs to assist the growth of technology businesses, including consulting, capital, training, and research.

SBIR/STTR Agency Links:

Air Force SBIR/STTR	http://www.afrl.af.mil/sbir_index.asp
Air Force SBIR/STTR Virtual Shopping Mall	http://www.sbirstrmall.com/
Army SBIR/STTR	http://www.aro.army.mil/arowash/rt/sbir/sbir.htm
BMDO SBIR Program Home Page	http://www.winbmdo.com/
DARPA SBIR Program Home Page	http://www.darpa.mil/sbir/
Department of Homeland Security SBIR Home Page	http://www.hsarpasbir.com/
DOC-NOAA SBIR/ORTA Page	http://www.ago.noaa.gov/ad/sbirs
DOC-NIST Home Page	http://patapsco.nist.gov/ts_sbir/
DOD SBIR Home Page	http://www.acq.osd.mil/sadbu/sbir/
DOD Special Operations Command (SOCOM)	http://soal.socom.mil/index.cfm?page=SADBU
DOE SBIR Home Page	http://sbir.er.doe.gov/sbir/
Dept. of Education SBIR Home Page	http://www.ed.gov/programs/sbir/index.html
Environmental Protection Agency SBIR Home Page	http://www.epa.gov/ncerqa/sbir
DOT SBIR Home Page	http://www.volpe.dot.gov/sbir/



Federal Technology Funding Guide

2006

NASA SBIR Home Page	http://sbir.hq.nasa.gov/
Navy SBIR/STTR	http://www.navysbirprogram.com/login
NIH SBIR/STTR Home Page	http://www.nih.gov/grants/funding/sbir.htm
SBA SBIR/STTR Home Page	http://www.sba.gov/SBIR
NSF SBIR/STTR Home Page	http://www.eng.nsf.gov/sbir/
USDA SBIR Home Page	http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1128

SBIR/STTR Resources:

Greenwood Consulting Group, Inc.	http://home.att.net/~g-jgreenwood/
JADE Research Corporation SBIR Research Center	http://www.win-sbir.com/
SEEport Foresight Science and Technology Incorporated	http://www.seeport.com/
DoD SBIR/STTR Awards for Basic Research	http://www.dodsbir.net/Awards/Default.asp
Small Business Administration Office of Technology	http://www.sbaonline.sba.gov/SBIR/
SBA Pre-solicitation Announcements	http://www.sba.gov/sbir/indexprograms.html
SBIR Gateway	http://www.zyn.com/sbir/
SBIR West Project	http://www.sbir.dsu.edu/
Community of Science SBIR Awards Search Engine	http://fundedresearch.cos.com/sbir/sbir-intro.html
DoD SBIR Search Engine Site	http://www.sbirstr.com/
Digital Systems, Inc.	http://www.dsrnet.com/

Agency, Office, and Program Website Listing

Departments and agencies are bolded.

Divisions/offices within departments/agencies are normal text.

Programs are italicized.

Federal Technology Funding Guide

2006

Department of Agriculture

<http://www.usda.gov>

Department of Agriculture – Funding Information

<http://www.csrees.usda.gov/fo/funding.cfm>

Cooperative State Research, Education, and Extension Service

<http://www.csrees.usda.gov>

*Agricultural Research Program – Special Grants
Biotechnology Risk Assessment Research Grants Program*

<http://www.csrees.usda.gov>

<http://www.csrees.usda.gov/funding/brag/brag.html>

National Research Initiative Competitive Grants Program

<http://www.csrees.usda.gov/funding/nri/nri.html>

Pest Management Alternatives

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1114>

Agricultural Research Service

<http://www.ars.usda.gov/>

Forest Service Business Opportunities

<http://www.fs.fed.U.S./business/>

Forestry Research Program

<http://www.fs.fed.U.S.>

Department of Commerce

<http://www.doc.gov/>

Department of Commerce – Grant Opportunities

<http://www.commerce.gov/grants.html>

National Institutes of Standards and Technology

<http://www.nist.gov/>

National Institutes of Standards and Technology - Funding Info

http://www.nist.gov/public_affairs/grants.htm

Advanced Technology Program

<http://www.atp.nist.gov/>

National Oceanic and Atmospheric Administration

<http://www.noaa.gov/>

National Oceanic and Atmospheric Administration - Funding Info

<http://www.ago.noaa.gov/ad/solindex.shtml>

National Environmental Satellite, Data, and Information Service

<http://www.nesdis.noaa.gov/>

Office of Oceanic and Atmospheric Research

<http://www.oar.noaa.gov/>

National Undersea Research Program

<http://www.nurp.noaa.gov/>

Sea Grant Program

<http://www.nsgo.seagrant.org>

Coastal Ocean Program

<http://www.cop.noaa.gov>

National Marine Fisheries Service

<http://www.nmfs.noaa.gov/>



Federal Technology Funding Guide

2006

<i>Saltonstall Kennedy Grant Program</i>	http://www.nmfs.noaa.gov/sfweb/skhome.html
National Ocean Service	http://www.nos.noaa.gov/
Coastal Services Center	http://www.csc.noaa.gov/
<i>National Marine Sanctuary Program</i>	http://www.sanctuaries.nos.noaa.gov/
National Weather Service	http://www.nws.noaa.gov/
<i>Climate and Global Change Program</i>	http://www.climate.noaa.gov
Hydrology Laboratory	http://www.nws.noaa.gov/oh/hrl/
Nat'l Telecommunications and Information Administration	http://www.ntia.doc.gov/
NTIA - Funding Info	http://www.ntia.doc.gov/otiahome/otiahome.html
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Department of Defense (DefenseLink)	http://www.defenselink.mil/
Depart of Defense (DefenseLink) - Funding Info	
U.S. Army	http://www.army.mil/
U.S. Army Research Office	http://www.aro.army.mil/index.htm
<i>Civil Engineering Program</i>	http://www.wes.army.mil
<i>Military Medical R&D Program</i>	http://usamraa-www.army.mil/pages/index.cfm
U.S. Navy	http://www.navy.mil/
Office of Naval Research	http://www.onr.navy.mil/
Office of Naval Research Acquisition Dept - Funding Info	http://www.onr.navy.mil/02/
U.S. Air Force	http://www.af.mil/
Air Force Material Command	http://www.afmc.wpafb.af.mil/
Air Force Research Laboratory	http://www.afrl.af.mil/
<i>Air Force Defense Research</i>	http://www.afosr.af.mil/research.htm
<i>Electromagnetics Technology Division</i>	http://www.herbb.hanscom.af.mil/
Space and Missiles Technologies Program	http://www.fas.org/spp/starwars/agency/

Federal Technology Funding Guide

2006

Rome Research Site <i>Electromagnetics and Reliability Directorate Program</i>	http://www.rl.af.mil/rrs/ http://www4.nationalacademies.org/pga/rap.nsf
Defense Research and Engineering -	http://www.dod.mil/ddre
Defense Advanced Research Projects Agency	http://www.darpa.mil/
DARPA - Funding Info	http://www.darpa.mil/baa/
<i>U.S. Display Consortium</i>	http://www.usdc.org/
Defense Modeling and Simulation Office	https://www.dmsomil/public
Independent R&D	http://www.dtic.mil/ird/
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Department of Energy	http://www.doe.gov/
Energy Efficiency and Renewable Energy Network	http://www.eere.energy.gov/
Office of Energy Efficiency and Renewable Energy	http://www.eere.energy.gov/office_eere/
<i>Western Regional Biomass Energy Program</i>	http://www.westgov.org/wga/initiatives/biomass/
<i>Renewable Energy R&D Program</i>	http://www.eere.energy.gov
Industrial Technologies Program	http://www.eere.energy.gov/industry/
Industrial Technologies Program - Funding Info	http://www.eere.energy.gov/industry/financial/
<i>Inventions and Innovation Program</i>	http://www.eere.energy.gov/inventions/
FreedomCAR & Vehicle Technologies Program	http://www.eere.energy.gov/vehiclesandfuels/
FreedomCAR & Vehicle Technologies Program - Funding Info	http://www1.eere.energy.gov/vehiclesandfuels/financial/index.html
<i>Fossil Energy R&D</i>	http://www.fe.doe.gov/
Office of Science	http://www.er.doe.gov/
<i>Financial Assistance Program</i>	http://www.er.doe.gov/production/grants/guide.html
Grants and Contracts	http://www.er.doe.gov/production/grants/grants.html

Federal Technology Funding Guide

2006

Office of Environmental Management	http://www.em.doe.gov/
<i>Environmental Management Science Program</i>	http://emsp.em.doe.gov/
<i>Secondaries and Inertial Fusion</i>	http://www.dp.doe.gov/SIF/index.htm
California Energy Commission	http://www.energy.ca.gov/
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Department of Health and Human Services	http://www.hhs.gov/
Center for Scientific Review	http://www.drg.nih.gov/refrev.htm
National Institutes of Health	http://www.nih.gov
National Institute of Allergy and Infectious Diseases	http://www.niaid.nih.gov/
<i>Allergy, Immunology, and Transplantation Research Program</i>	http://www.niaid.nih.gov/research/Dait.htm
DHHS Grants and Funding	http://www.dhhs.gov/grants/index.shtml
National Center for Research Resources	http://www.ncrr.nih.gov/
National Center for Research Resources - Funding Info	http://www.ncrr.nih.gov/rsrch_funding.asp
<i>Comparative Medicine Research Program</i>	http://www.ncrr.nih.gov/comparative_med.asp
<i>Biomedical Technology Program</i>	http://www.ncrr.nih.gov/biomedical_tech.asp
National Heart, Lung, and Blood Institutes	http://www.nhlbi.nih.gov/index.htm
National Heart, Lung, and Blood Institutes - Funding Info	http://www.nhlbi.nih.gov/funding/index.htm
<i>Lung Diseases Research Program</i>	http://www.nhlbi.nih.gov/about/dld/index.htm
<i>Blood Disease and Resources Research Program</i>	http://www.nhlbi.nih.gov/about/dbdr/index.htm
National Cancer Institute	http://www.nci.nih.gov/
Division of Cancer Biology	http://www.nci.nih.gov/dcb/dcbhom.htm
Division of Cancer Control and Population Sciences	http://cancercontrol.cancer.gov/
Division of Cancer Prevention	http://www.cancer.gov/prevention/
<i>Cancer Biology Research Program</i>	http://www.nci.nih.gov/dcb/dcbhom.htm
<i>Cancer Control Program</i>	http://www.cancer.gov/prevention/index.html
National Eye Institute	http://www.nei.nih.gov/

Federal Technology Funding Guide

2006

<i>Vision Research Program</i>	http://www.nei.nih.gov/strategicplanning/np_eyeh_ealth.asp
National Institute of Child Health and Human Development	http://www.nichd.nih.gov/
Nat'l Institute of Diabetes and Digestive and Kidney Diseases	http://www.niddk.nih.gov/
<i>Diabetes, Endocrinology, and Metabolic Research Program</i>	http://www.niddk.nih.gov/fund/divisions/DEM/DEMintro.htm
<i>Digestive Diseases and Nutrition Research Program</i>	http://www.niddk.nih.gov/fund/divisions/DDN/DDNintro.htm
National Institute of General Medical Sciences	http://www.nih.gov/nigms/
National Institute of General Medical Sciences - Funding Info	http://www.nigms.nih.gov/Research
<i>Cell Biology and Biophysics Research Program</i>	http://www.nih.gov/nigms
Center for Disease Control and Prevention	http://www.cdc.gov/
Center for Disease Control and Prevention - Funding Info	http://www.cdc.gov/od/pgo/funding/funding.htm
<i>Occupational Safety and Health Research Grants Program</i>	http://www.cdc.gov/niosh
Food and Drug Administration	http://www.fda.gov/default.htm
<i>Orphan Products Grants Program</i>	http://www.fda.gov/orphan/grants
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Department of Homeland Security	http://www.dhs.gov/dhspublic/
Advanced Research Projects Agency – SBIR	http://www.hsarpasbir.com/
<hr/>	
Department of the Interior	http://www.doi.gov/
U.S. Geological Survey	http://www.usgs.gov/
<i>Earthquake Hazards Reduction Program</i>	http://www.usgs.gov/contracts/nehpr/
<i>U.S. Geological Survey Research and Data Acquisition Program</i>	http://www.usgs.gov

Federal Technology Funding Guide

2006

*National Spatial Data Infrastructure Cooperative
Agreements Program*

<http://www.fgdc.gov>

National Park Service

<http://www.nps.gov>

*National Center for Preservation Technology and
Training Program*

<http://www.ncptt.nps.gov>

Department of Justice

<http://www.usdoj.gov/>

National Institute of Justice

<http://www.ojp.usdoj.gov/nij/>

National Institute of Justice - Funding Info

<http://www.ojp.usdoj.gov/nij/funding.htm>

Forensic DNA R&D Program

<http://www.ojp.usdoj.gov/nij/funding.htm>

Investigator-Initiated Research Program

<http://ncjrs.org/txtfiles/solicita.txt>

Department of Transportation

<http://www.dot.gov/>

Department of Transportation Acquisition and Grant
Mgmt

<http://www.dot.gov/ost/m60/>

Research and Special Programs Administration

<http://www.rspa.dot.gov/>

Office of Innovation, Research and Education

<http://www.rspa.dot.gov/dra/>

Federal Aviation Administration

<http://www.faa.gov/>

Office of Airport Planning and Programming, APP

<http://www.faa.gov/ARP/apphome.cfm>

Office of Aviation Research

<http://research.faa.gov/aar/>

Aviation Research Grants Program

<http://www.tc.faa.gov/logistics/grants>

Federal Highway Administration

<http://www.fhwa.dot.gov/>

Federal Highway Administration - Funding Info

<http://www.fhwa.dot.gov/programs.html>

National Highway Traffic Safety Administration

<http://www.nhtsa.dot.gov/>

Federal Railroad Administration

<http://www.fra.dot.gov>

Federal Transit Administration

<http://www.fta.dot.gov/>

Federal Technology Funding Guide

2006

Federal Transit Administration - Funding Info	http://www.fta.dot.gov/25_ENG_HTML.htm
National Highway Traffic Safety Administration	http://www.nhtsa.dot.gov/
National Highway Traffic Safety Administration - Funding Info	http://www.nhtsa.dot.gov/nhtsa/whatsup/contract/
Transportation Research Board	http://www.nas.edu/trb/index.html
National Research Council	http://www.nas.edu/nrc/
National Academy of Sciences	http://www.nasonline.org
<i>Innovations Deserving Exploratory Analysis (IDEA) Program</i>	http://www4.trb.org/trb/dive.nsf/web/idea_programs
<i>Next Generation High-Speed Rail IDEA Program</i>	http://www4.trb.org/trb/dive.nsf/web/high-speed_rail_idea
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Environmental Protection Agency	http://www.epa.gov/
Research Programs	http://www.epa.gov/epahome/program2.htm
Office of R&D	http://www.epa.gov/ord/
<i>EPA – Consolidated Research Program</i>	http://www.epa.gov
<i>Pesticides and Toxic Substances Research</i>	http://www.epa.gov/pesticides/
<i>Solid Waste Disposal Research</i>	http://www.epa.gov/osw
<i>Water/Water Pollution Research</i>	http://www.epa.gov/water
<i>Superfund Innovative Technology Evaluation Program</i>	http://www.epa.gov/ord/SITE/
Office of R&D	http://www.epa.gov/ord/
National Center for Environment Research and Quality Assurance	http://es.epa.gov/ncerqa/
National Center for Environment Research and Quality Assurance - Funding Info	http://es.epa.gov/ncerqa/grants/
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National Science Foundation	http://www.nsf.gov/
National Science Foundation - Funding Info	http://www.nsf.gov/funding/research_edu_community.jsp
FastLane	https://www.fastlane.nsf.gov/fastlane.htm

Federal Technology Funding Guide

2006

Division of Grants and Agreements	http://www.nsf.gov/bfa/dga/
Directorate for Biological Sciences	http://www.nsf.gov/home/bio/
Directorate for Computer and Information Sciences and Engineering	http://www.cise.nsf.gov/
Directorate for Engineering	http://www.nsf.gov/home/eng/
Directorate for Geosciences	http://www.geo.nsf.gov/start.htm
Directorate for Mathematical and Physical Sciences	http://www.nsf.gov/home/mps/