Small Business Grants and Sponsored Research

**SBIR: Small Business Innovative Research proposals**

- Submitted by a PI in a company
- Does not require collaboration with an academic institution

**STTR: Small Business Technology Transfer Research proposals**

- Submitted by a PI in an academic institution
- Requires collaboration with a small business entity
  - Partner with an existing company
  - Start your own company

**Sponsored Research & Fee-for-Service (not only Small Businesses)**

- Fee-for-service is usually company initiated research
- Sponsored research usually has a researcher initiated research proposal
  - Many companies have sponsored research programs with formal application forms and submission cycles
  - Several companies will consider research proposals if you intend to use their products in new and novel ways (e.g. Medtronic’s BMP2)
  - At worst companies might “donate” their product under a Material Transfer Agreement

WHERE TO GET HELP: **REMEMBER TO DISCLOSE “NEW” IDEAS AND PROTECT YOUR INVENTION!!**

- Ask your institution’s Office of Technology Commercialization for help identifying companies
- Keep in touch with colleagues and classmates that take research jobs in industry – they make great sponsored research collaborators
- Go to company websites for information on “Areas of Interest” – Google “Merck areas of interest”:
  - [www.merck.com/licensing/areas-of-interest/neuro.html](http://www.merck.com/licensing/areas-of-interest/neuro.html)
    - Neurosciences and Ophthalmology
    - Alzheimer’s Disease
    - Circadian Disorders
    - Pain
    - Parkinson’s Disease
      - Nondopaminergic agents with clinical proof of concept in palliative therapy for Parkinson’s disease
      - Nondopaminergic agents that reduce / eliminate L-dopa–induced dyskinesias
      - Agents and approaches to prevent or significantly reduce disease progression + LRRK2 inhibitors and LRRK2 animal models
      - Different formulations of approved products that have demonstrated clinically significant benefits in efficacy, safety / tolerability, and / or dosing versus standard of care
    - Tools and Technologies:
      - Animal models of Parkinson’s disease progression
    - Not Interested in:
      - Metal chelators
      - Antioxidants
- Pfizer (obesity/neuroscience), Proctor & Gamble, Amgen (musculoskeletal), J & J (virology)

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1 Only NIH highlighted – all Federal agencies participate – NSF, NASA, DOE, DOD, USDA etc.
SBIR Phase I and Phase II Award Levels Adjusted by SBA

March 30, 2010

The Small Business Administration (SBA) announced today, through the Federal Register, a final amendment to the Small Business Innovation Research (SBIR) Program Policy Directive. This Amendment adjusts SBIR Phase I award levels from $100,000 to $150,000, and Phase II award levels from $750,000 to $1,000,000. The amendment also continues to provide participating agencies with an appropriate degree of flexibility in award size. Applicants submitting NIH SBIR Phase I or Phase II applications (new or resubmissions) targeting due dates on or after April 5, 2010, may base budget requests on these adjusted amounts. Note: This amendment only applies to SBIR, not to the Small Business Technology Transfer (STTR) program. However, for both programs, the award levels are statutory guidelines, not ceilings. Therefore, applicants are encouraged to propose a budget that is justified, reasonable and appropriate for completion of the research project. A desire to have more time to change the budget request will not be allowed as a valid reason for a late submission. Also, it will not be possible to increase the budget request after the submission. As always, applicants are encouraged to contact NIH program staff listed in the Funding Opportunity Announcement to discuss their scientific project and budget plans.

March 16, 2010

On March 15th, the NIH SBIR/STTR Office held a webinar on “Enhancing Peer Review: What's An Applicant to Do?” Slides and recording of the webinar are now available. Answers to forum questions as soon as possible. The webinar had a record 1000 participants.

SBIR/STTR Programs Extended Through April 30, 2010

February 4, 2010

Congress has not yet completed the SBIR and STTR reauthorizations so have again extended the SBIR and STTR programs “as is” through April 30, 2010. This extension affects ten of the eleven agencies (including NIH) that participate in SBIR. DoD’s programs were previously extended through September 30, 2010, as part of the National Defense Authorization Act for Fiscal Year 2010 and are not affected by this recent extension.

PHS 2010-2 Omnibus Solicitation for SBIR/STTR Grants Now Available

January 15, 2010

The PHS 2010-2 Omnibus Solicitation of the NIH, CDC, FDA, and ACF for SBIR/STTR Grant Applications and SF 424 (R&R) Application Guide for SBIR/STTR Grant Applications are now available. The solicitation consists of: (1) parent funding opportunity announcement (FOA) for SBIR, (2) a parent FOA for STTR, and (3) narrative descriptions of the programs and research topics (in PDF - 1.60 MB and MS Word - 1.4 MB formats). The due dates for CY 2010 are April 5, August 5, and December 5. AIDS and AIDS-related applications are due May 7, September 7, 2010, and January 7, 2011.
New Page Limits

Along with this restructuring, new page limit requirements have been set. All SBIR and STTR applications are limited to a single page for the Specific Aims. Phase I applications are now limited to a maximum of 6 pages for the Research Strategy section. Phase II and Fast Track applications are limited to 12 pages for the Research Strategy section and 12 pages for the Commercialization Plan. Introductions for ALL resubmissions are now limited to one page. For easy reference, see the table below:

<table>
<thead>
<tr>
<th></th>
<th>Introduction (resubmissions only)</th>
<th>Specific Aims</th>
<th>Research Strategy</th>
<th>Commercialization Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase I</td>
<td>1 page</td>
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<td>6 pages</td>
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<tr>
<td>Phase II</td>
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<td>12 pages</td>
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<tr>
<td>Fast Track</td>
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<td>1 page</td>
<td>12 pages</td>
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Other Changes

- **Resources:** The Facilities and Other Resources section has been changed to require a description of how the scientific environment will contribute to the probability of success of the project and unique features of the environment.

- **Biographical Sketch:** A new Personal Statement has been incorporated as part A, changing the parts formerly called A, B, and C to Parts B, C, and D. Applicants should also limit the list of selected peer-reviewed publications to no more than 15.

Let me reiterate that these changes are effective for ALL applications submitted after January 25, 2010. Applications submitted using incorrect application forms (including applications that have an incorrect mix of old and new forms) will be delayed and may not be reviewed.

The SBIR and STTR parent funding opportunity announcements for 2010 (submission dates of April 5, August 5, and December 5) and the corresponding application submission instruction guide are scheduled to be released in early to mid-January. The instruction guide will include details on how to prepare applications based on the changes mentioned above.

To stay abreast of NIH Enhancing Peer Review activities, periodically review the Enhancing Peer Review website [http://enhancing-peer-review.nih.gov/index.html](http://enhancing-peer-review.nih.gov/index.html) and be sure you’re on the list serve for the NIH Guide for Grants and Contracts ([http://grants.nih.gov/grants/guide/listserv.htm](http://grants.nih.gov/grants/guide/listserv.htm)).

My apologies for such a lengthy note but I do hope it helps to clarify. Happy holidays!!

Kay Etzler
NIH SBIR/STTR Program
Office of Extramural Programs
[http://grants.nih.gov/grants/funding/sbir.htm](http://grants.nih.gov/grants/funding/sbir.htm)
Small Business Research Funding Opportunities


* SBIR Phase I and Phase II Award Levels Adjusted by SBA
* Slides and Webinar Recording Now Available
* SBIR/STTR Programs Extended Through April 30, 2010
* PHS 2010-2 Omnibus Solicitation for SBIR/STTR Grants Now Available
* Upcoming Changes to the Submission of Grant Applications (includes shorter page limits)

Registration is Now Open

12th Annual NIH SBIR/STTR Conference
June 2-3, 2010
Raleigh, NC
(Hosted by North Carolina Small Business Technology Development Center)

Register here

Funding Opportunities

2010 SBIR and STTR Omnibus Solicitations of the NIH, CDC, FDA and ACF

SBIR Parent Funding Opportunity Announcement (PA-10-050)

STTR Parent Funding Opportunity Announcement (PA-10-051)

Program Descriptions and Research Topics (PDF - 1.6 MB or MS Word - 1.4 MB)

Standard Receipt Dates:
April 5, Aug 5, Dec 5

AIDS and AIDS-Related Receipt Dates:

Recovery Act Opportunities  Special Announcements Page  Receipt dates vary. See individual announcements for dates.

Special Funding Opportunities and Announcements

SBIR Phase I Contract Solicitation PHS 2010-1

PDF - 1.1 MB or MS Word - 2 MB and Contract Proposal Forms

Electronic Submission

Presentations/Conferences

* Kentucky Innovation And Entrepreneurship Conference Link to Non-U.S. Government Site - Click for Disclaimer (Lexington, KY; April 6, 2010)
* Overview of SBIR/STTR program (PowerPoint - 1.4 MB)
* Nuances of the NIH SBIR/STTR program (PowerPoint - 7.4 MB)

Archive of Presentations/Conferences
Other SBIR/STTR Initiatives (PAs & RFAs)

Bioengineering Nanotechnology Initiative (SBIR [R43/R44]) New
Receipt Date(s): May 8, 2013
Release Date(s): April 06, 2010

Bioengineering Nanotechnology Initiative (STTR [R41/R42]) New
Receipt Date(s): April 5, August 5, December 5
Release Date(s): April 06, 2010

Innovative Neuroscience K-12 Education (SBIR [R43/R44])
Receipt Date(s): June 1, 2010, April 4, 2011, April 4, 2012
Release Date(s): March 25, 2010

Development and Translation of Medical Technologies that Reduce Health Disparities (SBIR [R43/R44])
Receipt Date(s): May 20, 2010, September 22, 2010
Release Date(s): March 19, 2010

SHIFT Award: Small Businesses Helping Investigators to Fuel the Translation of Scientific Discoveries
[SBIR: R43/R44]
Receipt Date(s): April 5, August 5, December 5
Release Date(s): March 05, 2010

NIAID Advanced Technology STTR (NIAID-AT-STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): March 05, 2010

New Approaches to Arrhythmia Detection and Treatment (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): March 03, 2010

Image-Guided Cancer Interventions (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): January 08, 2010

Novel Tools for Investigating Brain-derived GPCRs in Mental Health Research (SBIR [R43/R44])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): January 08, 2010

Optimization of Small Molecule Probes for the Nervous System (STTR [R41])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): August 26, 2009

Directed Stem Cell Differentiation for Cell-Based Therapies for Heart, Lung, and Blood Diseases (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): August 12, 2009

Innovations in Biomedical Computational Science and Technology Initiative (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): August 05, 2009

Advanced Tools and Technologies for Cerebrospinal Fluid Shunts STTR (R41/R42)
Receipt Date(s): April 5, August 5, December 5
Release Date(s): June 08, 2009

Technologies and Software to Support Integrative Cancer Biology Research (SBIR) [R43/R44]
Receipt Date(s): April 5, August 5, December 5
Release Date(s): May 19, 2009

Technology for the Detection and Characterization of Low Abundance Proteins, Peptides, or micro RNAs (SBIR) [R43/R44]
Receipt Date(s): April 5, August 5, December 5
Release Date(s): May 19, 2009

Multiplex Assay Development for Arthritis and Musculoskeletal and Skin Diseases (SBIR [R43/R44])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): April 06, 2009

Tools to Mitigate and Understand the Mental Health Effects of National Disasters: SBIR [R43/R44]
Receipt Date(s): April 5, August 5, December 5
Release Date(s): March 03, 2009

Advanced Neural Prosthetics Research and Development (SBIR [U44])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): December 22, 2008

Probes for Microimaging The Nervous System (SBIR [R43/R44])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): December 18, 2008

Tools for Germplasm Cryopreservation (STTR) [R41/R42]
Receipt Date(s): April 5, August 5, December 5
Release Date(s): December 17, 2008

Probes and Instrumentation for Monitoring and Manipulating Nervous System Plasticity (SBIR [R43/R44])
http://grants.nih.gov/grants/guide/pa-files/PA-08-146.html
Receipt Date(s): April 5, August 5, December 5
Release Date(s): April 16, 2008

Pharmacologic Agents and Drugs for Mental Disorders (SBIR [R43/R44])
Lab to Marketplace: Tools for Biomedical and Behavioral Research (SBIR [R43/R44])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): April 10, 2008

Development of PET and SPECT Ligands for Brain Imaging (SBIR [R43/R44])
http://grants.nih.gov/grants/guide/pa-files/PA-08-137.html
Receipt Date(s): April 5, August 5, December 5
Release Date(s): April 09, 2008

New Technologies for Transient Molecular Complex Characterization (STTR [R41/R42])
http://grants.nih.gov/grants/guide/pa-files/PA-08-111.html
Receipt Date(s): April 5, August 5, December 5
Release Date(s): April 07, 2008

High Throughput Tools for Brain and Behavior (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): October 02, 2007

New Technology for Proteomics and Glycomics (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): September 10, 2007

Bioengineering Approaches to Energy Balance and Obesity (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
Release Date(s): August 20, 2007

Computational Tools for Research in Neuroscience, Behavioral Science and Mental Health: STTR [R41/R42]
Receipt Date(s): April 5, August 5, December 5
Release Date(s): July 27, 2007

Neurotechnology Research, Development, and Enhancement (STTR [R41/R42])
Receipt Date(s): April 5, August 5, December 5
OMNIBUS SOLICITATION OF THE NATIONAL INSTITUTES OF HEALTH, CENTERS FOR DISEASE CONTROL AND PREVENTION, FOOD AND DRUG ADMINISTRATION, AND ADMINISTRATION FOR CHILDREN AND FAMILIES FOR

SMALL BUSINESS INNOVATION RESEARCH (SBIR)

AND

SMALL BUSINESS TECHNOLOGY TRANSFER (STTR)

GRANT APPLICATIONS

NIH, CDC, FDA, and ACF Program Descriptions and Research Topics

SUBMISSION DATES

APRIL 5, AUGUST 5, AND DECEMBER 5, 2010
(MAY 7, SEPTEMBER 7, 2010 AND JANUARY 7, 2011 FOR AIDS/AIDS-RELATED RESEARCH)

National Institutes of Health (SBIR and STTR)
Centers for Disease Control and Prevention (SBIR)
Food and Drug Administration (SBIR)
Administration for Children and Families (SBIR)
NATIONAL INSTITUTE OF ARTHRITIS AND MUSCULOSKELETAL AND SKIN DISEASES (NIAMS)

The mission of the National Institute of Arthritis and Musculoskeletal and Skin Diseases is to support research into the causes, treatment, and prevention of arthritis and musculoskeletal and skin diseases, the training of basic and clinical scientists to carry out this research, and the dissemination of information on research progress in these diseases. For additional information about areas of interest to the NIAMS, please visit our home page at http://www.niams.nih.gov.

Arthritis and Musculoskeletal and Skin Diseases

A. **Division of Skin and Rheumatic Diseases.** This division promotes and supports: basic and clinical studies of the skin in normal and disease states; and research leading to prevention, diagnosis and cure of rheumatic and related diseases. In the area of Skin Diseases, the division has a wide range of skin diseases under study with NIAMS support, to include keratinizing disorders such as psoriasis and ichthyosis, atopic dermatitis and other chronic inflammatory skin disorders, the vesiculobullous diseases such as epidermolysis bullosa and pemphigus, acne, and vitiligo. In the area of Rheumatic Diseases, the division supports basic, epidemiologic, and clinical research on etiology, pathogenesis, course, interventions, and outcomes in rheumatic and related diseases.

This is not an inclusive list of all research topics covered by the Division of Skin and Rheumatic Diseases. To learn more, please visit the Division page at http://www.niams.nih.gov/Funding/Funding_Opportunities/Supported_Scientific_Areas/Skin_Rheumatic_Diseases/default.asp.

B. **Division of Musculoskeletal Diseases.** The musculoskeletal system is comprised of the skeleton, which provides mechanical support and determines shape; the muscles, which power movement; and connective tissues such as tendon and ligament, which hold the other components together. The cartilage surfaces of joints and the intervertebral discs of the spine allow for movement and flexibility.

The Division of Musculoskeletal Diseases of the NIAMS supports research aimed at improving the diagnosis, treatment, and prevention of diseases and injuries of the musculoskeletal system and its component tissues. Key public health problems addressed by this research include osteoporosis, osteoarthritis, and muscular dystrophy. Research is conducted at every level, from fundamental biology to clinical intervention.

This is not an inclusive list of all research topics covered by the Division of Musculoskeletal Diseases. To learn more, please visit the Division page at http://www.niams.nih.gov/Funding/Funding_Opportunities/Supported_Scientific_Areas/Musculoskeletal_Diseases/default.asp.

For general SBIR/STTR program information, contact:
Mr. Elijah Weisberg, NIAMS SBIR/STTR Coordinator
301-435-1002, Fax: 301-480-4543
Email: weisberge@mail.nih.gov

For administrative and business management questions, contact:
Ms. Sheila Simmons
301-594-9812, Fax: 301-480-5450
Email: simmonss@mail.nih.gov

Mr. Erik (Timothy) Edgerton
301-594-3968, Fax: 301-480-5450
FUNDING OPPORTUNITY ANNOUNCEMENTS

REMAINDER: ALL APPLICATIONS MUST BE SUBMITTED IN RESPONSE TO A FUNDING OPPORTUNITY ANNOUNCEMENT THROUGH GRANTS.GOV

SMALL BUSINESS INNOVATION RESEARCH PROGRAM PARENT ANNOUNCEMENT (SBIR [R43/R44])
HTTP://GRANTS.NIH.GOV/GRANTS/GUIDE/PA-FILES/PA-10-050.HTML

SMALL BUSINESS TECHNOLOGY TRANSFER PROGRAM PARENT ANNOUNCEMENT (STTR [R41/R42])
HTTP://GRANTS.NIH.GOV/GRANTS/GUIDE/PA-FILES/PA-10-051.HTML

ADDITIONAL SPECIAL ANNOUNCEMENTS FOR SMALL BUSINESS RESEARCH OPPORTUNITIES
HTTP://GRANTS.NIH.GOV/GRANTS/FUNDING/SBIR_ANNOUNCEMENTS.HTM

APPLICATION INSTRUCTIONS

SF424 (R&R) APPLICATION INSTRUCTIONS AND ELECTRONIC SUBMISSION INFORMATION
(HTTP://GRANTS.NIH.GOV/GRANTS/FUNDING/424/INDEX.HTM)