Funding Opportunities for the Social, Behavioral and Economic Sciences

Bill Badecker
Program Director, Linguistics
Division of Behavioral and Cognitive Sciences

Portland, OR
February 29-March 1, 2016
Behavioral and Cognitive Sciences Division

...supports research to develop and advance scientific knowledge about humans spanning areas of inquiry including brain and behavior, language and culture, origins and evolution, and geography and the environment.
Behavioral and Cognitive Sciences Standing Programs

Archaeology
Archaeometry
Biological Anthropology
Cultural Anthropology
Geography and Spatial Sciences
Cognitive Neuroscience

Linguistics
Documenting Endangered Languages (DEL)
Social Psychology
Perception, Action and Cognition (PAC)
Developmental and Learning Sciences (DLS)
Social and Economic Sciences Division

...seeks to enhance our understanding of human, social and organizational behavior by building social science infrastructure, by developing social disciplinary and interdisciplinary research projects that advance knowledge in the social and economic sciences.
Social and Economic Sciences Standing Programs

- Decision, Risk, and Management Sciences (DRMS)
- Economics
- Law and Social Sciences (LSS)
- Methodology, Measurement, and Statistics (MMS)
- Political Science
- Science of Organizations (SoO)
- Science, Technology, and Society (STS)
- Sociology
... is the nation’s leading provider of statistical data on the science and engineering enterprise. It’s primary focus is on the collection, interpretation, analysis, and dissemination of objective data on science and engineering in the US and abroad, though NCSES also provides support for external research that uses its data.
NCSES Data Resources

• 11 National Surveys on the S&T Enterprise
• Research and Development Surveys that measure:
  • R&D expenditures by academia, businesses, federal and state governments
  • R&D infrastructure (facilities, etc.)
  • Outputs
  • Who are the funders and the performers?
• Human Resources Surveys that measure:
  • Graduate enrollments in S&E
  • Doctoral degrees awarded
  • Science and engineering workforce
• Leverage survey data from other sources on:
  • Enrollment and degrees below the doctoral level
  • Employment by industry

For more information: www.nsf.gov/statistics
Social, Behavioral & Economic Sciences Programs

- Cultural Anthropology
- Biological Anthropology
- Archaeology
- Linguistics
- Social Psychology
- Economics
- Sociology
- Political Science

- Cognitive Neuroscience
- Developmental & Learning Sciences
- Documenting Endangered Languages
- Perception, Action & Cognition
- Geography & Spatial Sciences
- Environmental, Social & Behavioral Science
- Decision, Risk & Management Sciences
- Science of Science & Innovation Policy
- Innovation & Organizational Sciences
- Methodology, Measurement & Statistics
- Science, Technology & Society
- Law & Social Sciences
Social, Behavioral & Economic Sciences Joint Funding

Joint-Funded Programs
- Cognitive Neuroscience
- Ecology of Infectious Disease
- Cyberinfrastructure
- Dynamics of Coupled Natural & Human Systems (CNH)
- Research Coordination Networks (RCN)
- Partnerships for International Research and Education (PIRE)

Funding Partners
- NIH
- CISE
- BIO
- GEO
- ENG
- MPS
- OCI
- OPP

Science, Engineering, and Education for Sustainability (SEES)
- Research Coordination Networks (RCN)
- Partnerships for International Research and Education (PIRE)
<table>
<thead>
<tr>
<th>Social, Behavioral and Economic Sciences (SBE) Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>(Dollars in Millions)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>FY 2015 Estimate</th>
<th>FY 2016 Request</th>
<th>Amount</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social and Economic Sciences (SES)</td>
<td>$97.72</td>
<td>$105.13</td>
<td>$7.41</td>
<td>7.6%</td>
</tr>
<tr>
<td>Behavioral and Cognitive Sciences (BCS)</td>
<td>94.47</td>
<td>101.79</td>
<td>7.32</td>
<td>7.7%</td>
</tr>
<tr>
<td>NCSES: National Ctr for Science &amp; Engineering Statistics</td>
<td>50.76</td>
<td>54.31</td>
<td>3.55</td>
<td>7.0%</td>
</tr>
<tr>
<td>SMA: Office of Multi-disciplinary Activities</td>
<td>29.25</td>
<td>30.23</td>
<td>0.98</td>
<td>3.4%</td>
</tr>
<tr>
<td><strong>Total, SBE</strong></td>
<td><strong>$272.20</strong></td>
<td><strong>$291.46</strong></td>
<td><strong>$19.26</strong></td>
<td><strong>7.1%</strong></td>
</tr>
</tbody>
</table>

*Totals may not add due to rounding.*
## SBE Budget
### Standing Program Senior Research

<table>
<thead>
<tr>
<th>BCS Programs</th>
<th>Fiscal Year 2015 Budget Allocations</th>
<th>Senior Success Rates (2009-14)</th>
<th>Average Award Size (2009-14)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archaeology &amp; Archaeometry</td>
<td>$8,114,104</td>
<td>28%</td>
<td>$147,291</td>
</tr>
<tr>
<td>Biological Anthropology</td>
<td>$5,076,019</td>
<td>27%</td>
<td>$274,534</td>
</tr>
<tr>
<td>Cognitive Neurosciences</td>
<td>$10,027,941</td>
<td>15%</td>
<td>$501,513</td>
</tr>
<tr>
<td>Cultural Anthropology</td>
<td>$4,794,423</td>
<td>12%</td>
<td>$151,965</td>
</tr>
<tr>
<td>DLS</td>
<td>$8,091,836</td>
<td>16%</td>
<td>$430,680</td>
</tr>
<tr>
<td>DEL</td>
<td>$2,769,670</td>
<td>32%</td>
<td>$81,080</td>
</tr>
<tr>
<td>GSS</td>
<td>$8,273,267</td>
<td>13%</td>
<td>$278,235</td>
</tr>
<tr>
<td>Linguistics</td>
<td>$6,388,631</td>
<td>29%</td>
<td>$283,953</td>
</tr>
<tr>
<td>PAC</td>
<td>$8,215,708</td>
<td>17%</td>
<td>$423,122</td>
</tr>
<tr>
<td>Social Psych</td>
<td>$7,908,200</td>
<td>16%</td>
<td>$305,035</td>
</tr>
</tbody>
</table>
## SBE Budget
### Standing Program Senior Research

<table>
<thead>
<tr>
<th>SES Standing Programs</th>
<th>Fiscal Year 2015 Budget Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decision, Risk, and Management Sciences</td>
<td>$6,859,931</td>
</tr>
<tr>
<td>Economics</td>
<td>$23,464,398</td>
</tr>
<tr>
<td>Law and Social Sciences</td>
<td>$5,609,643</td>
</tr>
<tr>
<td>Methodology, Measurement, and Statistics</td>
<td>$4,058,922</td>
</tr>
<tr>
<td>Political Science</td>
<td>$9,123,562</td>
</tr>
<tr>
<td>Science of Organizations</td>
<td>$3,182,492</td>
</tr>
<tr>
<td>Science, Technology, and Society</td>
<td>$5,985,241</td>
</tr>
</tbody>
</table>
Funding Mechanisms: Kinds of Proposals

Standing programs differ, but most support:

- Doctoral Dissertation Research Improvement grants
- Regular/senior research grants
- CAREER awards
- High risk awards (EAGER, RAPID)
- Training programs (including Scholars)
- Research-focused workshops
- Research Coordination Networks (RCNs)
SBE Directorate Priorities

• Cognitive Science/Neuroscience: Understanding the Brain
• Science of Learning
• Privacy in Today’s Networked World
• Interdisciplinary Behavioral and Social Sciences (IBSS)
• Science of Disparities: Developing and testing theories of the causes, contexts, and consequences of inequality
SBE Directorate Priorities

• Big Data for the SBE Sciences
• Research Infrastructure, including the Big Three Surveys: American National Election Studies (ANES), General Social Survey (GSS), and Panel Study of Income Dynamics (PSID)
• Provide statistical data on the Science and Engineering enterprise in the US and abroad
**SBE 2020: Future Research in the Social, Behavioral & Economic Sciences**

- Frame innovative research for the year 2020 that will enhance fundamental knowledge and will benefit society in many ways.
- Insights to inform and enable:
  - Substance, capacity, and infrastructure
  - Increasingly interdisciplinary and international research
  - Many perspectives, intellectual frameworks, scales, contexts, approaches and methodologies
- Invited white papers outlining grand challenge questions that are both foundational and transformative.
  - Foundational: reflect deep issues that engage fundamental assumptions behind disciplinary research traditions
  - Transformative: leverage current findings to unlock a new cycle of research.
- Results analyzed and discussed in *Rebuilding the Mosaic*

Human Subjects

- No award for a project involving human subjects can be made without prior Institutional Review Board (IRB) approval/exemption of the research activity
  - IRB approval must be valid for at least 90 days after the award date
- IRB approval is not needed at the time of proposal submission.
Where to start?

• AN IDEA
• www.nsf.gov
• Check awards by program, keyword, etc. (www.nsf.gov/awardsearch/)
• Read solicitation carefully (if not an unsolicited competition)
• Download (and read!) Grant Proposal Guide (= first part of the PAPPG)
• Think about scale and budget
Advice

• Review NSF website
• “Get NSF Updates by Email” on homepage
• Team up
  – Collaborate
  – Ask colleagues to comment on proposals
• E-mail or call Program Officer with specific questions (send a one page project summary before calling)
• Learn to get beyond rejection
• Give yourself plenty of time
  – Don't expect to be successful by “throwing something together at the last minute.”
• Consider theoretical foundations and prospective theoretical contributions.
• Read Solicitations, *Grant Proposal Guide* (GPG), etc.
• Learn how proposals will be evaluated; Think like those who will review and make decisions
• Volunteer to review proposals
• Talk to Program Officers
QUESTIONS??

Contact Bill Badecker
(703) 292-5069
wbadecke@nsf.gov

OR....
Appendicies

• SBE Standing Program Information, Target/Due Dates, etc.

• Navigating the NSF web site
  – Finding information about standing programs and special solicitations
  – Finding information about NSF funded projects

• Paths to SBE Support
Standing Program Information

• The following slides are for your reference
• They provide a brief sense of SBE Program and Program Officer names.
• Word to the Wise:
  – Dates, names, etc. change. Double check on website.
Division of Behavioral and Cognitive Sciences

• Supports research to develop and advance scientific knowledge focusing on human cognition, language, evolution, social behavior, and culture
• Supports research on the interactions between human societies and the physical environment

Division Director: Howard Nusbaum  <hnusbaum@nsf.gov>
<table>
<thead>
<tr>
<th>Discipline</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archaeology &amp; Archaeometry</td>
<td>July 1&lt;sup&gt;+&lt;/sup&gt; &amp; Dec 20&lt;sup&gt;+&lt;/sup&gt;, December 1&lt;sup&gt;*&lt;/sup&gt;</td>
</tr>
<tr>
<td>Biological Anthropology</td>
<td>March 16, 2016; November 16, 2016</td>
</tr>
<tr>
<td>Cultural Anthropology</td>
<td>January 15 &amp; August 15</td>
</tr>
<tr>
<td>Geography and Spatial Sciences</td>
<td>first Thursday in September</td>
</tr>
<tr>
<td>Cognitive Neuroscience</td>
<td>August 15, 2016 &amp; February 13, 2017</td>
</tr>
<tr>
<td>Developmental &amp; Learning Sciences</td>
<td>January 15 &amp; July 15</td>
</tr>
<tr>
<td>Documenting Endangered Languages</td>
<td>September 15</td>
</tr>
<tr>
<td>Linguistics</td>
<td>January 15 &amp; July 15</td>
</tr>
<tr>
<td>Perception, Action &amp; Cognition</td>
<td>window: Jan 15-Feb 1 &amp; July 15-Aug 1</td>
</tr>
<tr>
<td>Social Psychology</td>
<td>January 15 &amp; July 15</td>
</tr>
</tbody>
</table>
Funds:

1. Archaeological research that contributes to an anthropological understanding of the past
2. Anthropologically significant archaeometric research

Program Officer: John Yellen
Biological Anthropology

• Supports basic research in areas related to:
  – Human Evolution
  – Anthropological Genetics
  – Human Adaptation
  – Skeletal Biology
  – Primate Biology
  – Ecology and Behavior
• Grants are often characterized by:
  – An underlying evolutionary framework
  – A consideration of adaptation as a central theoretical theme
  – Generalizable Results
• Serves as a bridge between the social and behavioral sciences and the natural and physical sciences

Program Officer: Rebecca Ferrell
Cultural Anthropology

- Promotes basic scientific research on the causes and consequences of human social and cultural variation
- Supports social scientific research of theoretical importance in all theoretical and empirical subfields

Program Officer: Jeffrey Mantz, Deborah Winslow
Geography and Spatial Sciences

- Supports research on human, physical, and biotic systems on the Earth’s surface, as well as their related subfields.
- Investigations into the nature, causes, and consequences of human activity within particular "places and spaces" are encouraged.
- Both international & domestic projects which may contribute to related fields are also funded.

Program Officers:  Tom Baerwald, Holly Hapke, Sunil Narumalani
Cognitive Neuroscience

- Program supports highly innovative and interdisciplinary proposals
- Proposals should aim to advance a rigorous understanding of how the human brain supports:
  - thought
  - perception
  - affect
  - action
  - social processes
  - and other aspects of cognition and behavior, including how such processes develop and change in the brain and through evolutionary time.

Program Officer: Alumit Ishai
Developmental and Learning Sciences

- Supports studies that increase our understanding of cognitive, social, and biological processes related to children and adolescents’ learning in formal and informal settings
- Supports research on learning and development that:
  - incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches
  - develops new methods and theories
  - examines transfer of knowledge from one domain to another
  - assesses peer relations, family interactions, social identities, and motivation
  - examines the impact of family, school, and community resources
  - assesses adolescents’ preparation for entry into the workforce
  - investigates the role of demographic and cultural characteristics in children’s learning and development

Program Officer: Laura Namy
Documenting Endangered Languages

• Responds to loss of world’s languages
  – Research grants
  – Fellowships in partnership with NEH
• Data collection, preparation of grammars & dictionaries
• Requires creation of archives
• Training & Workshops
• Cyber infrastructure and tools for linguistic analysis

Program Officer: Colleen Fitzgerald
Linguistics

- Supports scientific research of all types that focus on human language as an object of investigation
  - the syntactic, semantic, phonetic, and phonological properties of individual languages and of language in general
  - the psychological processes involved in the use of language
  - the development of linguistic capacities in children
  - social and cultural factors in language use, variation, and change
  - the acoustics of speech and the physiological and psychological processes involved in the production and perception of speech
  - the biological bases of language in the brain

Program Officer: Bill Badecker, Joan Maling
Perception Action and Cognition

• Supports basic research on human cognitive and perceptual functions
• Topics include, but are not limited to:
  – Attention
  – Memory
  – Spatial Cognition
  – Language Processing
  – Perceptual and Conceptual Development
  – Visual, Auditory, and Tactile Perception
  – Reasoning
• Research supported by the program encompasses a broad range of theoretical perspectives such as Symbolic Computation, Connectionism, and Dynamical Systems

Program Officers: Betty Tuller, Anne Cleary
Social Psychology

• Supports research on human social behavior, including cultural differences and development over the life span

• Among the many research topics supported are:
  – attitude formation and change
  – social cognition
  – personality processes
  – interpersonal relations and group processes
  – the psychophysiological correlates of social behavior

Program Officers: Kerry Marsh, Tamera Schneider
Division of Social and Economic Sciences (SES)

- Supports research to develop and advance scientific knowledge focusing on economic, legal, political and social systems, organizations, and institutions
- Supports research on the intellectual and social contexts that govern the development and use of science and technology

Acting Division Director: Alan Tomkins <atomkins@nsf.gov>
<table>
<thead>
<tr>
<th>Field</th>
<th>Target Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law and Social Science</td>
<td>August 1, 2016 &amp; January 17, 2017</td>
</tr>
<tr>
<td>Political Science</td>
<td>January 17, 2017 &amp; August 15</td>
</tr>
<tr>
<td>Sociology</td>
<td>January 17, 2017 &amp; August 15</td>
</tr>
<tr>
<td>Economics</td>
<td>January 18 &amp; August 18</td>
</tr>
<tr>
<td>Science, Technology and Society</td>
<td>February 2 &amp; August 3</td>
</tr>
<tr>
<td>Science of Organizations</td>
<td>Sept 6, 2016 &amp; Feb 2, 2017</td>
</tr>
<tr>
<td>Decision, Risk, &amp; Management Sciences</td>
<td>January 18 &amp; August 18</td>
</tr>
</tbody>
</table>
Law and Social Science

• Supports social scientific studies of law and law-like systems of rules, institutions, processes, and behaviors
• Topics can include, but are not limited to
  – research designed to enhance the scientific understanding of the impact of law
  – human behavior and interactions as these relate to law
  – the dynamics of legal decision making
  – the nature, sources, and consequences of variations and changes in legal institutions

Program Officer: Jon Gould, Helena Silverstein
Political Science

• Supports scientific research that advances knowledge and understanding of citizenship, government, and politics
• Substantive areas include, but are not limited to:
  – American government and politics
  – comparative government and politics
  – international relations
  – political behavior
  – political economy
  – political institutions
• Supports Doctoral Dissertation Research Improvement Grants

Program Officers: Brian Humes, Lee Walker
The Sociology program supports theoretically-grounded research on systematic patterns of social relationships that examine the causes and consequences of human behavior, social structure and social change. Studies range from micro to macro levels of interaction.

Topics include, but are not limited to:
- Stratification, labor markets, mobility, social change
- Organizations, networks, economic and workplace change
- Crime, delinquency, social organization and social control
- Race, ethnicity, social identity/interactions, culture, education
- Family, gender, population, migration, immigration
- Social movements, political processes, globalization and more

The Program supports research that uses the range of social science methodologies — experimental, quantitative, qualitative and the combinations of multiple methods—for original data collection and secondary data analysis.

Program Officers: Beth Rubin, Pat White
Economics

• Supports:
  – Both empirical and theoretical economic analysis as well as work on methods for rigorous research on economic behavior
  – Research designed to improve the understanding of the processes and institutions of the U.S. economy and of the world system of which it is a part
  – Almost all subfields of economics including: econometrics, economic history, finance, industrial organization, international economics, labor economics, public finance, macroeconomics, and mathematical economics

Program Officers: Nancy Lutz, Georgia Kosmopoulou, Sudipta Sarangi
Science, Technology and Society

STS considers proposals that examine questions that arise in the interactions of engineering, science, technology, and society.

There are four components:

- Ethics and Values in Science, Engineering and Technology (EVS)
- History and Philosophy of Science, Engineering and Technology (HPS)
- Social Studies of Science, Engineering and Technology (SSS)
- Studies of Policy, Science, Engineering and Technology (SPS)

The components overlap, but are distinguished by the different scientific and scholarly.

Program Officers: Fred Kronz, Linda Layne
Science of Organizations

• Supports research which uses theory combined with empirical validation
• Looks to expand the concepts, models and methodologies of change in organizations and institutions
• In FY06, IOC is particularly interested in studies that shed light on how best to organize for scientific knowledge creation when researchers must share critical resources, such as major instruments or IT infrastructure.

Program Officer: Mo Wang, Heng Xu
Methodology, Measurement, and Statistics

• Seeks proposals that are interdisciplinary in nature, methodologically innovative, and grounded in theory, such as:
  
  – Models and methodology for social and behavioral research
  – Statistical methodology/modeling directed towards the social and behavioral sciences
  – Methodological aspects of procedures for data collection

Program Officer: Cheryl Eavey
Decision, Risk, & Management Sciences

• Supports research that explores fundamental issues in judgment and decision making, risk analysis, management science, and organizational behavior

• Research must be relevant to an operational or applied context, grounded in theory, and based on empirical observation or subject to empirical validation

Program Officers: Robert O’Connor, Jonathan Leland
NCSES Research Opportunity and Focus

• **Research on the Science and Technology Enterprise: Statistics and Surveys**
• **Deadline Dates:** January 15, 2016 and annually thereafter
• **Focus**
  • Analytic and methodological research in support of its surveys, and to engage in the education and training of researchers in the use of large-scale nationally representative datasets
• **Examples**
  • Developing better indicators on R&D, S&E education and workforce, competitiveness, innovation, or globalization of S&T
  • Improved understanding of existing indicators
  • New indicators using administrative records, social media or other novel data extraction methods
  • Improving methodological approaches for NCSES surveys
  • New and improved methods for presenting statistical information on the S&T enterprise
• **Program Officer:** Nimmi Kannankutty ([nkannank@nsf.gov](mailto:nkannank@nsf.gov))
Cross-Directorate Activities

• Serves both divisions – SES and BCS
• Administers and coordinates programs to increase underrepresented groups in science and engineering
  – Research Experiences for Undergraduates
  – Minority Postdoctoral Fellowships
• Provides information on cross-Foundation/cross-cutting programs

Program Officer: Fahmida Chowdhury
Interdisciplinary Behavioral and Social Science Research (IBSS) First Tuesday in December

Resource Implementation for Data Intensive Research in the SBE Sciences (RIDIR) Last Monday in February

Secure and Trustworthy Cyberspace (SaTC) several submission windows
NSF website:
www.nsf.gov
NSF Funding & Research Community

SPECIAL NOTICES

NSF and Congress: Latest Actions
Science Policy
Currently accepting nominations and applications for the Presidential Awards for Excellence in Mathematics and Science Teaching. Nomination Deadline: April 1; Application Deadline: May 1

New Steps to Enhance Transparency and Accountability at the National Science Foundation, Important Notice No. 137, January 13, 2015


NSF Strategic Plan for FY 2014-2018


EVENT CALENDAR

17 Committee on Education and Human Resources (CEH) Teleconference
NSF website: www.nsf.gov

Scroll down to the bottom of the page

Select here for the SBE homepage

Look here for policy manuals like the GPG
Examples of funded projects?

- NSF makes basic information available to the public: name of the investigator, organization receiving award, the award title and abstract, and the amount awarded to date.

- Link at bottom of each funding program’s web site that reads “Abstracts of Recent Awards Made Through This Program”

- Search at http://www.nsf.gov/awardsearch/
NSF website:

www.nsf.gov

Click here to search awards
### Award Search

#### Award Database

**Hint:** The text field below `Search Award For` searches the title, abstract, and award number fields.

- **Search Award For:** TERRORISM
- **Restrict to Title Only:** [ ]

#### Search Results

**Refine Search**

207 awards found, displaying 1 to 50.

[First/Prev] 1, 2, 3, 4, 5 [Next/Last]

<table>
<thead>
<tr>
<th>Award Number</th>
<th>Title</th>
<th>NSF Organization</th>
<th>Program(s)</th>
<th>Start Date</th>
<th>Principal Investigator</th>
<th>State</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>9905144</td>
<td>ASSW: Substantive Expertise, Strategic Analysis and Behavioral Foundations of Terrorism</td>
<td>BCS</td>
<td></td>
<td>09/15/2009</td>
<td>Crosson, Rachel</td>
<td>TX</td>
<td>University of Texas at Lubbock</td>
</tr>
<tr>
<td>9905146</td>
<td>NWCCC/AC: Workshop on Terrorism and the Political Economy of Terrorism and Insurance</td>
<td>BCS</td>
<td></td>
<td>09/15/2009</td>
<td>Herman, EK</td>
<td>CA</td>
<td>University of California, San Diego</td>
</tr>
<tr>
<td>9905148</td>
<td>Understanding Cross-Boundary Knowledge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>INFO INTEGRATION &amp;</td>
</tr>
</tbody>
</table>
Search!

FY 2017 budget focuses on national issues

How gut inflammation sparks colon cancer
February 4, 2016

Research may explain mysterious deep earthquakes in subduction zones
February 3, 2016

Lithium battery catalyst found to harm key soil microorganism
February 4, 2016

Project embeds computer science lessons in math instruction for K-5 students
February 2, 2016
Paths to SBE Support

• Standing Program Senior Proposals
• CAREER Proposals
• Student Support (DDRIGs, REUs)
• EAGER
• RAPID
• Dear Colleague Letters
• Special Solicitations (e.g., Building Community & Capacity for Data Intensive Research in the SBE Sciences and in EHR)
Paths to SBE Support

CAREER Proposals

CAREER Solicitation (NSF 14-532)

- Available in all NSF programs
- Untenured faculty (or comparable)
- Single scholar award
- $400,000, 5-years minimum award
- Three CAREER proposals lifetime limit
- Mid to late July deadline (varies by discipline and year)
- High Prestige/High Expectations
- Presidential Early Career Awards for Scientists and Engineers (PECASE)
Paths to SBE Support

Student Support

Research Experiences for Undergraduates

• Available in all programs
• Two types of awards
  - REU Supplements: Awards added onto senior awards to sponsor undergraduate student research
  - REU Sites: training programs, often in the summer months, for teaching research methods to undergrads
• RET (Research Experiences for Teachers): Gives K – 12 teachers experience in research in coordination with REU projects
Paths to SBE Support

Student Support

REU SITES (13-542)

- Supports research by faculty in predominantly undergraduate institutions through:
  - Individual and collaborative projects
  - Purchase of research instrumentation
  - Research Opportunity Awards for work with NSF-supported researchers at other institutions
- Available from all programs
- Recent NC recipients
  - Appalachian State University
  - High Point University
  - North Carolina Central University
  - Winston-Salem State University
Paths to SBE Support

Internal Merit Review

Early-concept Grants for Exploratory Research (EAGER)

- Exploratory work on untested, potentially transformative ideas
- High-risk, high-potential payoff
- $300,000 maximum; 2 years
- Eight page description
- Internal review required; external optional
- Contact program officer first
- “Your eagerness to get NSF funding is not a good reason to request an EAGER award.”
- “Many programs prefer you to submit proposals that undergo merit evaluation by peers before you argue that your ideas are so innovative and unorthodox that they can’t be evaluated fairly through normal evaluation processes.”
Paths to SBE Support

Internal Merit Review

Grants for Rapid Response Research (RAPID)

- Research when data are ephemeral
- $200,000 maximum; 1 year
- 5 page project description
- Internal review required; external optional
- Available in all programs
- Contact program officer first
- "Wanting the money rapidly is not a good reason to request a RAPID award."

For proposals having a severe urgency with regard to availability of, or access to data, facilities or specialized equipment, including quick-response research on natural or anthropogenic disasters and similar unanticipated events
Paths to SBE Support
Dear Colleague Letter

Dear Colleague Letters
• Official requests for research proposals on specific topics
• Often cross-disciplinary, applicable to a number of programs

Examples:
  Dear Colleague Letter: Stimulating Research Related to the Science of Broadening Participation

  Dear Colleague Letter: For Interdisciplinary Research Across the SBE Sciences

  Dear Colleague Letter: Industry/University Cooperative Research Centers in Areas Relevant to Forensic Sciences
Paths to SBE Support
Special Solicitations

Special Solicitations

• Funding in targeted areas

Examples:

• Coupled Natural and Human Systems (CNH)
• Science of Science and Innovation Policy (SciSIP)
• Ecology and Evolution of Infectious Disease (EEID)
• Collaborative Research in Computational Neuroscience (CRCNS)
• Resource Implementations for Data-Intensive Research in the SBE Sciences (RIDIR)
Other Paths to Support
Directorate for Education and Human Resources (EHR)

• Invests in research on learning
• Facilitating the translation of research into practice
• Creates supportive learning environments

**Programs**

• Graduate Education (DGE)
• Research on Learning in Formal and Informal Settings (DRL)
  • Fostering Interdisciplinary Research on Education solicitation
    often co-funds with BCS programs
    • Promotes innovative theoretical and methodological research that
      facilitates greater STEM education

• Undergraduate Education (DUE)
• Human Resource Development (HRD)
Other Paths to Support
Office of International Science and Engineering (OISE)

- Promotes development of integrated international strategy
- Manages international programs
- Close partnerships with Directorate including SBE

**Programs**

- Catalyzing New International Collaborations
- East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI)
- International Research Fellowship Program (IRFP)
- Pan-American Advanced Studies Institutes Program (PASI)
- Partnerships for International Research and Education (PIRE)
  - Supports high quality research that cannot be achieved without international cooperation
- Science Across Virtual Institutes (SAVI)
  - Provides an economic mechanism for U.S. researchers to build collaborations