NSF Funding Webinar - Social, Behavioral, and Economic Sciences

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Deputy Assistant Director, SBE

National Science Foundation

August 20, 2020

Welcome to all Attendees!

- Georgetown University
- Catholic University of America
- George Mason University
- Central Washington University
- NASEM
- NIIF
- SFS
- UC Berkeley
- University Maryland at Baltimore County
- University of the District of Columbia
- University of Virginia
- And more…

NSF in a Nutshell

- Created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense…"
- Annual budget of about $8.1 billion (Fiscal Year 2019) funds approximately 24 percent of all federally supported basic research conducted by America’s colleges and universities

Leadership and Organization

Dr. Sethuraman Panchanathan
NSF Director

The National Science Board

NSF Organization

Directorates

- Biological Sciences
- Computer & Information Science & Engineering
- Education & Human Resources
- Engineering
- Geosciences
- Mathematical & Physical Sciences
- **Social, Behavioral & Economic Sciences**

Office of the Director

- Legislative & Public Affairs
- General Counsel
- Integrative Activities
- International Science and Engineering
- Diversity and Inclusion

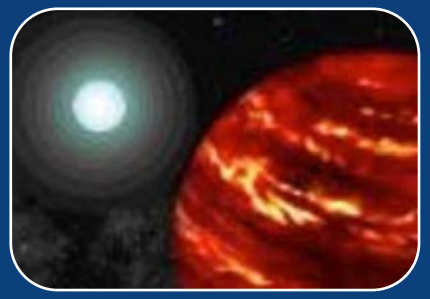
Administrative Offices

- Budget, Finance, and Award Management
- Information & Resource Management

NSF Funds All Fields of Science & Engineering

Biological Sciences

Engineering



Mathematical & Physical Sciences

Computer & Information Science & Engineering

Geosciences (including Polar Programs)

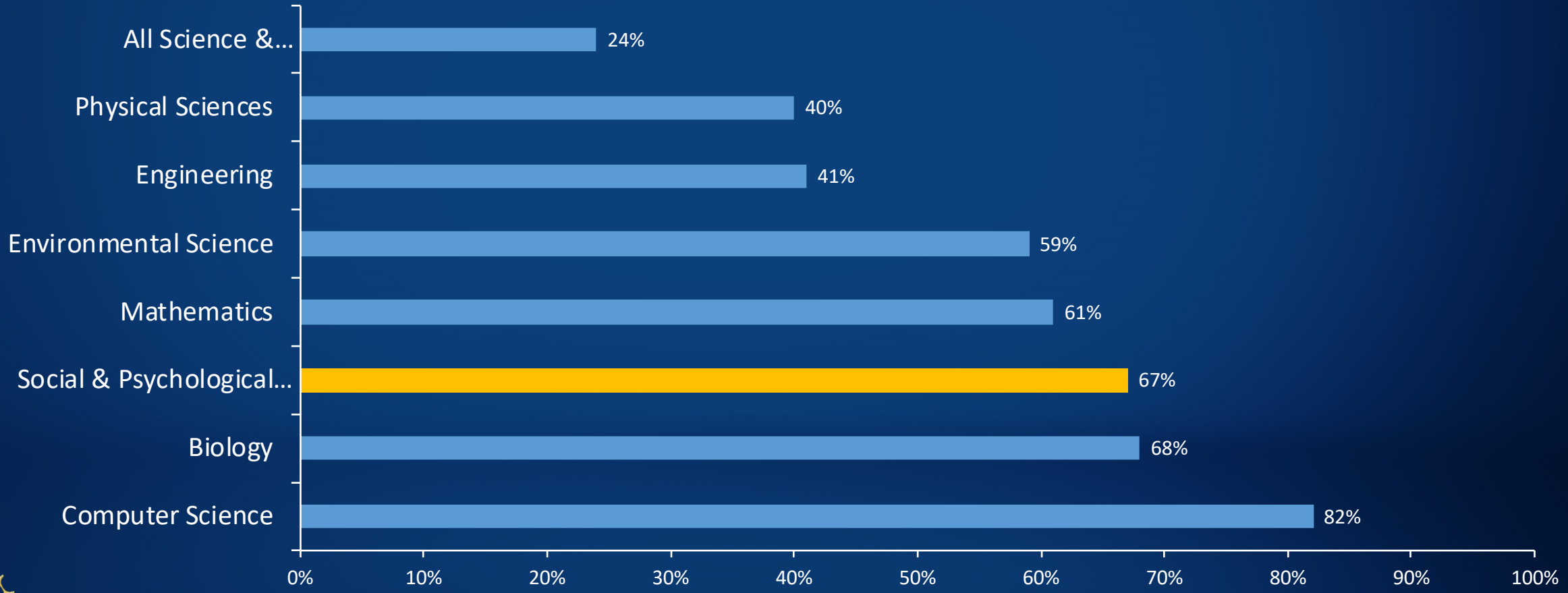
Integrative Activities

Education & Human Resources

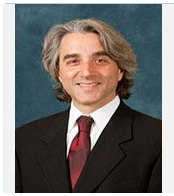
Social, Behavioral & Economic Sciences (SBE)

International Science and Engineering

NSF Support of Academic Basic Research in Selected Fields



Directorate for Social, Behavioral and Economic Sciences



Arthur "Skip" Lupia

Assistant Director

Kellina Craig-Henderson

Deputy Assistant Director

Behavioral and Cognitive Sciences

Marc Sebrechts
Division Director

- Archaeology
- Biological Anthropology
- Cultural Anthropology
- Human Networks and Data Science
- Social Psychology
- Cognitive Neuroscience
- Developmental Sciences
- Science of Learning and Augmented Intelligence
- Linguistics & Dynamic Language Infrastructure
- Perception, Action and Cognition

Social and Economic Sciences

Daniel Goroff
Division Director

- Economics
- Accountable Institutions and Behavior
- Security and Preparedness
- Sociology
- Decision, Risk and Management Sciences
- Law and Sciences
- Methodology, Measurement and Statistics
- Science of Organizations Studies
- Secure & Trustworthy Cyberspace
- Ethical and Responsible Research

National Center for Science and Engineering Statistics

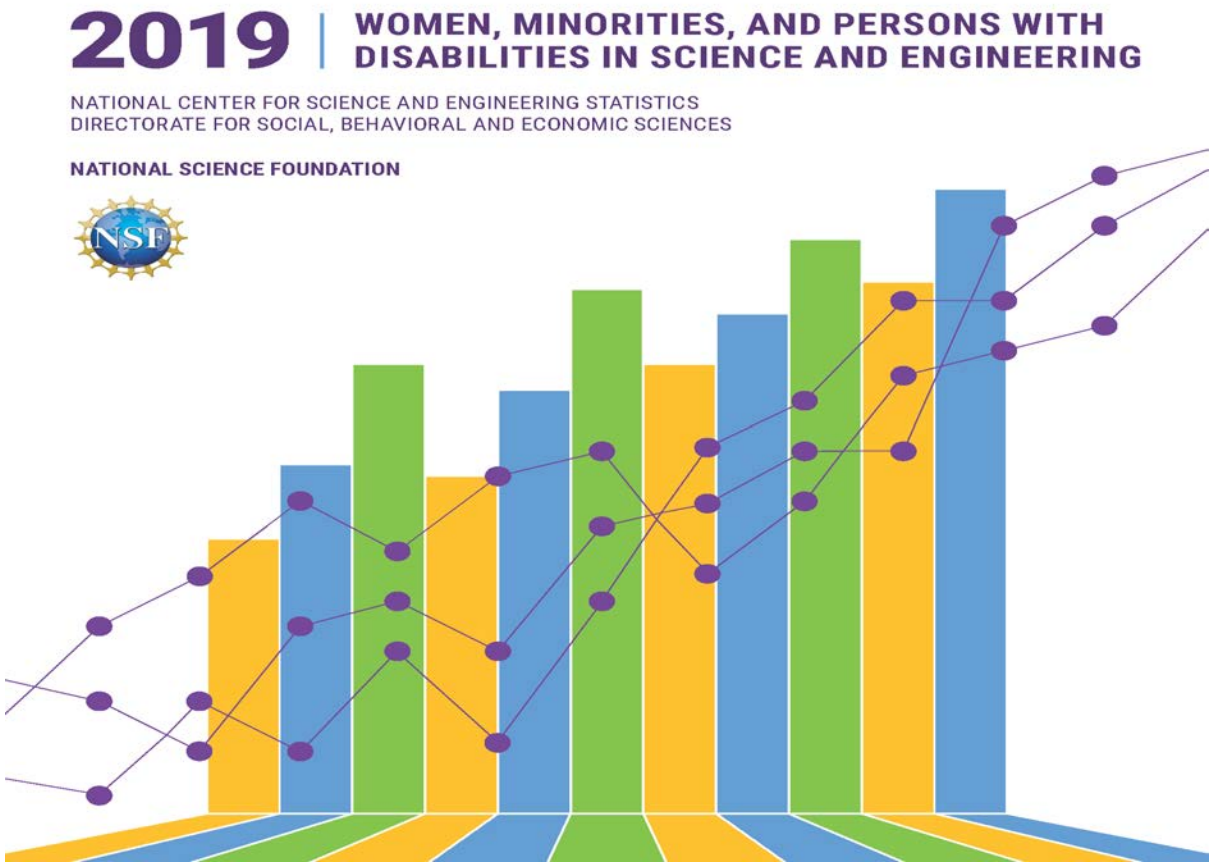
Emilda Rivers
Division Director

- Measuring
  - The Nation's Investment in R&D
  - The education and workforce characteristics of scientists and engineers
- Developing indicators of the Nation's competitiveness and innovation capacity
- Supporting research on the science and technology enterprise

Office of Multidisciplinary Activities

- Research Experiences for Undergraduates Sites
- SBE Postdoctoral Research Fellowships
- Science of Science : Discovery, Communication & Impact

The STEM Workforce and Talent Landscape



NSF and SBE's Response to the COVID-19 Pandemic

RAPID funding mechanism

CARES Act

73 awards = $9.5M

With regular appropriations

200 awards = $27M

University of Memphis

RAPID: Systemic Differences in Employee Outcomes from COVID-19 and the Effectiveness of Organizational Response

The COVID-19 pandemic has forced millions of employees to: (a) work remotely, (b) continue to work in low-paying “essential” work, at great risk to their own health, or (c) face sudden unemployment.

This research will study how these changes have impacted people from different demographic and socioeconomic backgrounds.

New York University

RAPID: Examining public spatial behavior during the COVID-19 outbreak

Social distancing measures have taken on a sense of urgency in population-dense metropolitan areas, which host a large portion of the COVID-19 cases.

This research captures how new forms of spatial behavior emerge, while testing how existing theories of spatial behavior hold under extraordinary circumstances. This will be done by capturing and coding immersive, first-person, geolocated video-diaries of metropolitan residents going about their daily streetscape activity, as life shifts to adapt to new social distancing and curfew orders.

NSF'S 10 BIG IDEAS

NSF's TEN Big Ideas

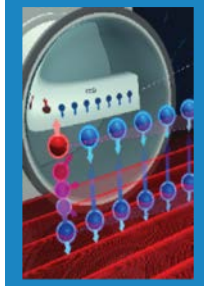
RESEARCH IDEAS

Harnessing Data for 21st Century Science and Engineering

Work at the Human-Technology Frontier: Shaping the Future

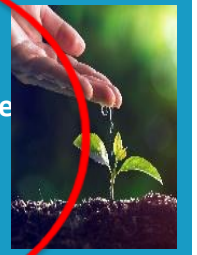
Navigating the New Arctic

Windows on the Universe: Multi-messenger Astrophysics



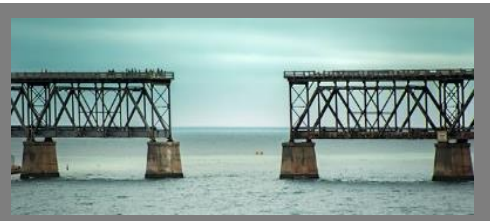
Quantum Leap: Leading the Next Quantum Revolution

Understanding the Rules of Life: Predicting Phenotype

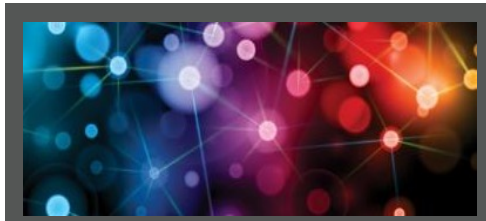


PROCESS IDEAS

Mid-scale Research Infrastructure



NSF 2026



Growing Convergence Research at NSF

NSF INCLUDES: Enhancing STEM through Diversity and Inclusion

"… bold questions that will drive NSF's long-term research agenda — questions that will ensure future generations continue to reap the benefits of fundamental S&E research."

The SBE sciences are engaged in most of the 10 Big Ideas!

- Harnessing the Data Revolution
- Future of Work at the Human Technology Frontier
- Navigating the New Arctic
- Rules of Life
- INCLUDES
- Mid-Scale Research Infrastructure
- Growing Convergence Research
- NSF 2026

- Windows on the Universe
- Quantum Leap

Harnessing the data revolution for 21st-Century science and engineering

There are three principal components of the Harnessing the Data Revolution big idea:

1. Research - across all NSF Directorates
2. Educational pathways - Innovations grounded in an education-research-based framework
3. Advanced cyberinfrastructure - accelerating data-intensive research

The Future of Work at the Human-Technology Frontier

"…to understand and explain how constantly evolving technologies are changing the world of work and the lives of workers and how people can in turn shape those technologies"

Research Themes

- **Building the human-technology partnership**
- **Augmenting human performance**
- **Illuminating the socio-technological landscape**
- **Fostering lifelong learning**

Navigating the new Arctic (NNA)

- **Establishing an observing network of mobile and fixed platforms and tools across the Arctic**
- **Documenting and understand the Arctic's rapid biological, physical, chemical, and social changes**

Understanding the Rules of Life

Rules that explain and predict living systems.

- **Cross spatial, temporal, organizational scales**
- **Interaction of biological components and environment**

Inclusion across the Nation of Communities of Learners that have been Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)

- Long-term goal: fund new research, models, and partnerships that lead to demonstrable progress in meeting the challenge of broadening participation in science and engineering
- FY 2016
  - NSF INCLUDES Network Design & Devt Pilots
  - NSF INCLUDES Alliances
- FY 2017
  - NSF INCLUDES Alliances
  - NSF INCLUDES Backbone Organization
  - Supplements to link projects in current portfolio

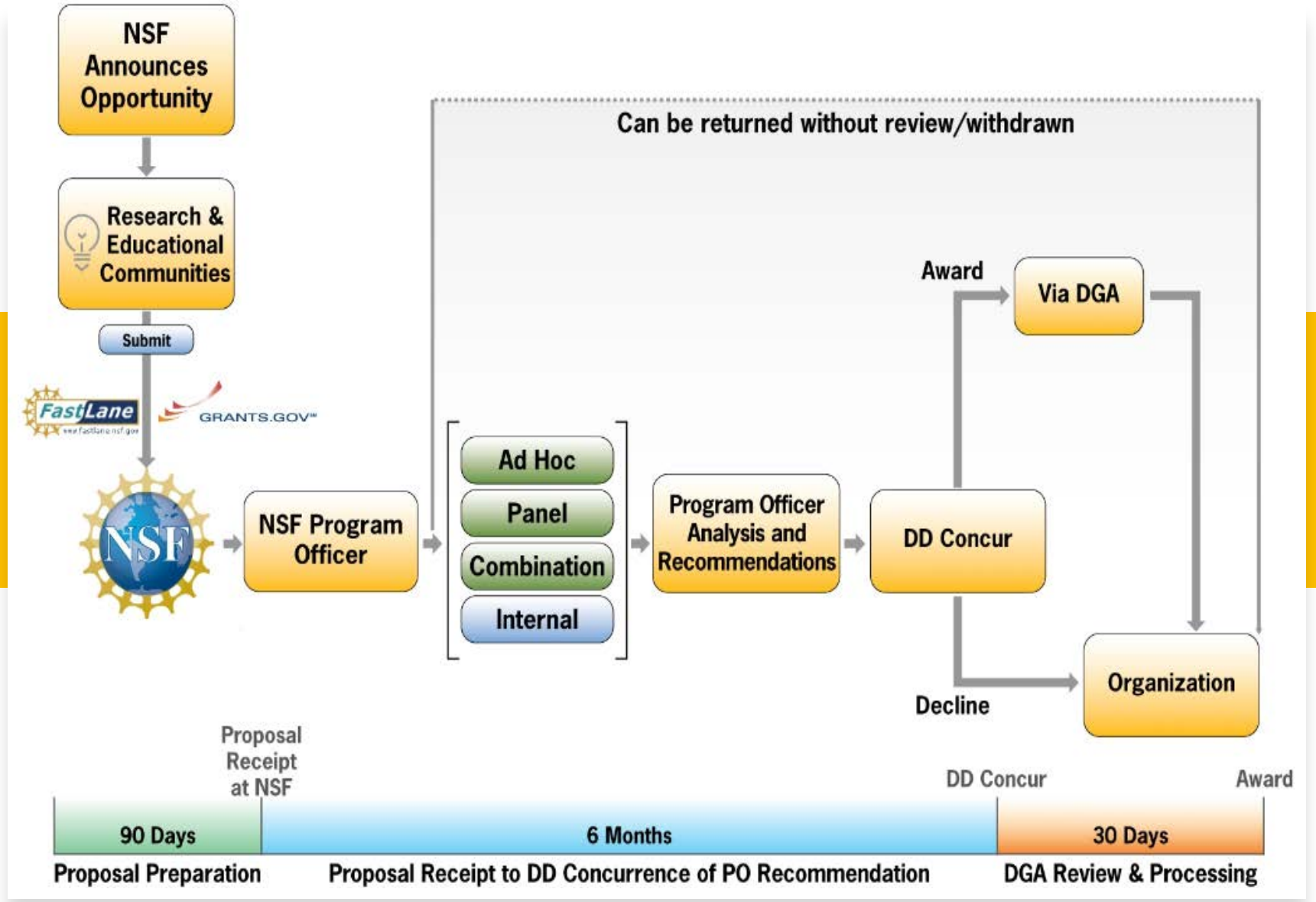
NSF Cross Directorate Research Priorities

- Understanding the Brain (UtB)
- Secure and Trustworthy Cyberspace (SATC)
- Smart and Connected Communities (S&CC)
- Cyberlearning for Work at the Human-Technology Frontier (Cyberlearning)
- Integrative Strategies for Understanding Neural and Cognitive Systems (NCS)
- Collaborative Research in Computational Neuroscience (CRCNS)
- Innovation Corps (I-Corps)

NSF Programs for Graduate Students and newer PIs

- Doctoral Dissertation Research Improvement Grants (DDRIG)
- Postdoctoral Research Fellowships
- Graduate Research Fellowships
- National Science Foundation Research Traineeship (NRT) Program*
- Robert Noyce Teacher Scholarship Program
- PI standard awards*

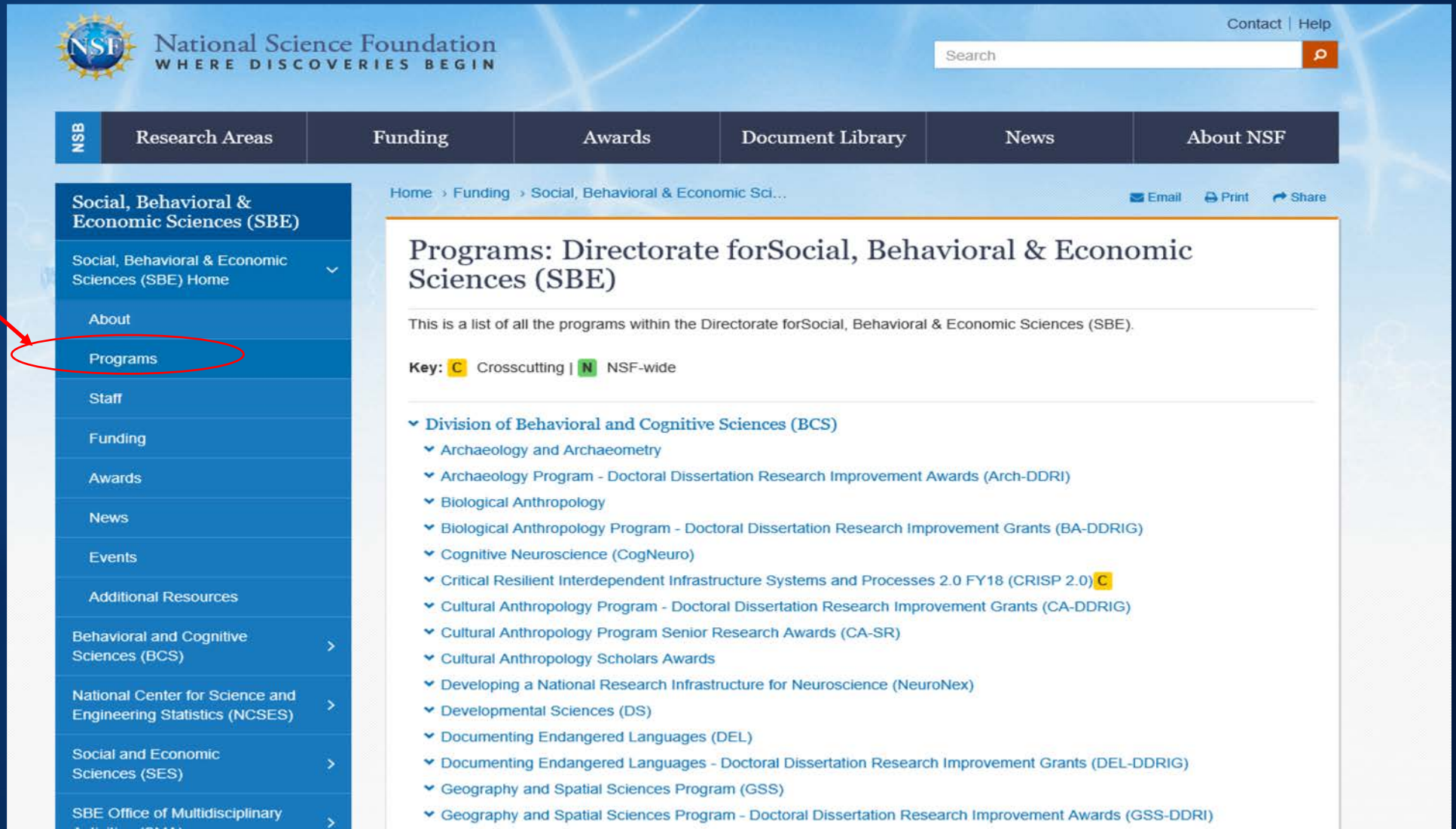
Standard Submission Process



* There are some exceptions to submission procedures (e.g., individual awards such as postdoctoral fellowships)

Navigating NSF Documents/ Websites

Review the SBE Programs Page: https://nsf.gov/funding/programs.jsp?org=SBE



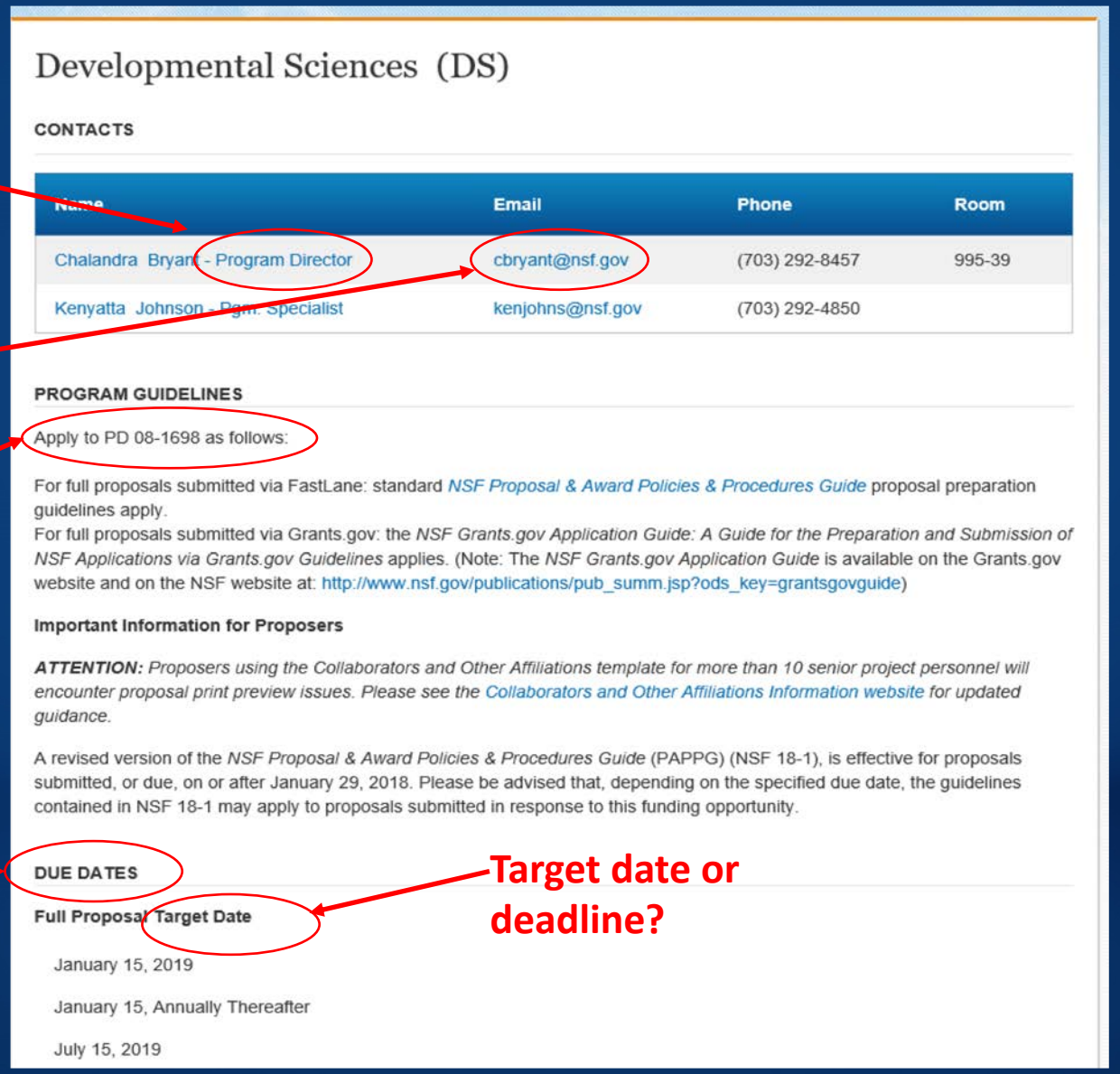
Find the Right Program (e.g., DS program webpage)

Who is the Program Director?

How do you contact the Program Director?

How do you apply? Program Description vs. Solicitation

When do you apply?



Developmental Sciences (DS)

CONTACTS

Name	Email	Phone	Room
Chalandra Bryant - Program Director	cbryant@nsf.gov	(703) 292-8457	995-39
Kenyatta Johnson - Pgm. Specialist	kenjohns@nsf.gov	(703) 292-4850	

PROGRAM GUIDELINES

Apply to PD 08-1698 as follows:

For full proposals submitted via FastLane: standard *NSF Proposal & Award Policies & Procedures Guide* proposal preparation guidelines apply.
For full proposals submitted via Grants.gov: the *NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov Guidelines* applies. (Note: The *NSF Grants.gov Application Guide* is available on the Grants.gov website and on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=grantsgovguide)

Important Information for Proposers

ATTENTION: *Proposers using the Collaborators and Other Affiliations template for more than 10 senior project personnel will encounter proposal print preview issues. Please see the Collaborators and Other Affiliations Information website for updated guidance.*

A revised version of the *NSF Proposal & Award Policies & Procedures Guide* (PAPPG) (NSF 18-1), is effective for proposals submitted, or due, on or after January 29, 2018. Please be advised that, depending on the specified due date, the guidelines contained in NSF 18-1 may apply to proposals submitted in response to this funding opportunity.

DUE DATES

Full Proposal Target Date

January 15, 2019

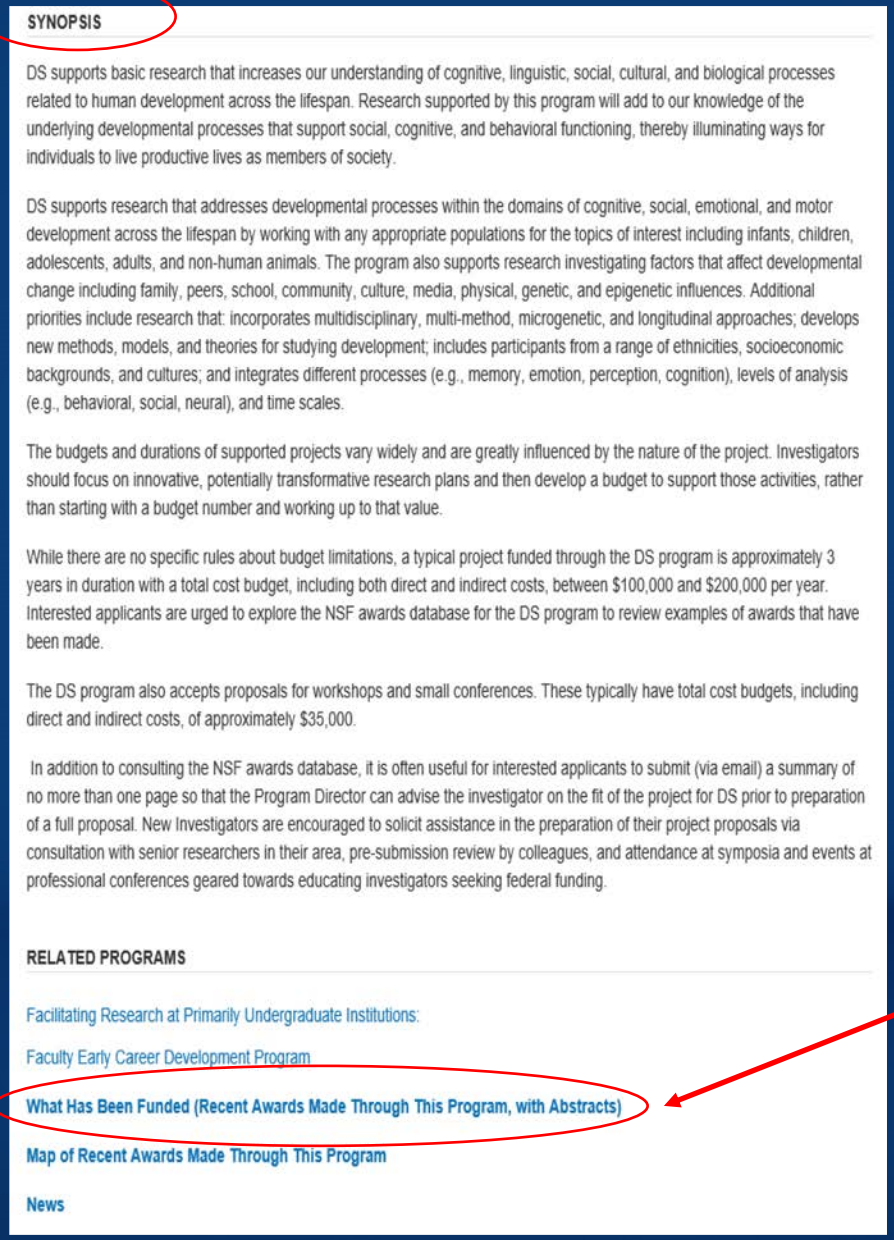
January 15, Annually Thereafter

July 15, 2019

Target date or deadline?

Find the right program: (scrolling down….)

How do I know if my research is relevant to a particular program?



SYNOPSIS

DS supports basic research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to human development across the lifespan. Research supported by this program will add to our knowledge of the underlying developmental processes that support social, cognitive, and behavioral functioning, thereby illuminating ways for individuals to live productive lives as members of society.

DS supports research that addresses developmental processes within the domains of cognitive, social, emotional, and motor development across the lifespan by working with any appropriate populations for the topics of interest including infants, children, adolescents, adults, and non-human animals. The program also supports research investigating factors that affect developmental change including family, peers, school, community, culture, media, physical, genetic, and epigenetic influences. Additional priorities include research that: incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches; develops new methods, models, and theories for studying development; includes participants from a range of ethnicities, socioeconomic backgrounds, and cultures; and integrates different processes (e.g., memory, emotion, perception, cognition), levels of analysis (e.g., behavioral, social, neural), and time scales.

The budgets and durations of supported projects vary widely and are greatly influenced by the nature of the project. Investigators should focus on innovative, potentially transformative research plans and then develop a budget to support those activities, rather than starting with a budget number and working up to that value.

While there are no specific rules about budget limitations, a typical project funded through the DS program is approximately 3 years in duration with a total cost budget, including both direct and indirect costs, between $100,000 and $200,000 per year. Interested applicants are urged to explore the NSF awards database for the DS program to review examples of awards that have been made.

The DS program also accepts proposals for workshops and small conferences. These typically have total cost budgets, including direct and indirect costs, of approximately $35,000.

In addition to consulting the NSF awards database, it is often useful for interested applicants to submit (via email) a summary of no more than one page so that the Program Director can advise the investigator on the fit of the project for DS prior to preparation of a full proposal. New Investigators are encouraged to solicit assistance in the preparation of their project proposals via consultation with senior researchers in their area, pre-submission review by colleagues, and attendance at symposia and events at professional conferences geared towards educating investigators seeking federal funding.

RELATED PROGRAMS

Facilitating Research at Primarily Undergraduate Institutions:

Faculty Early Career Development Program

What Has Been Funded (Recent Awards Made Through This Program, with Abstracts)

Map of Recent Awards Made Through This Program

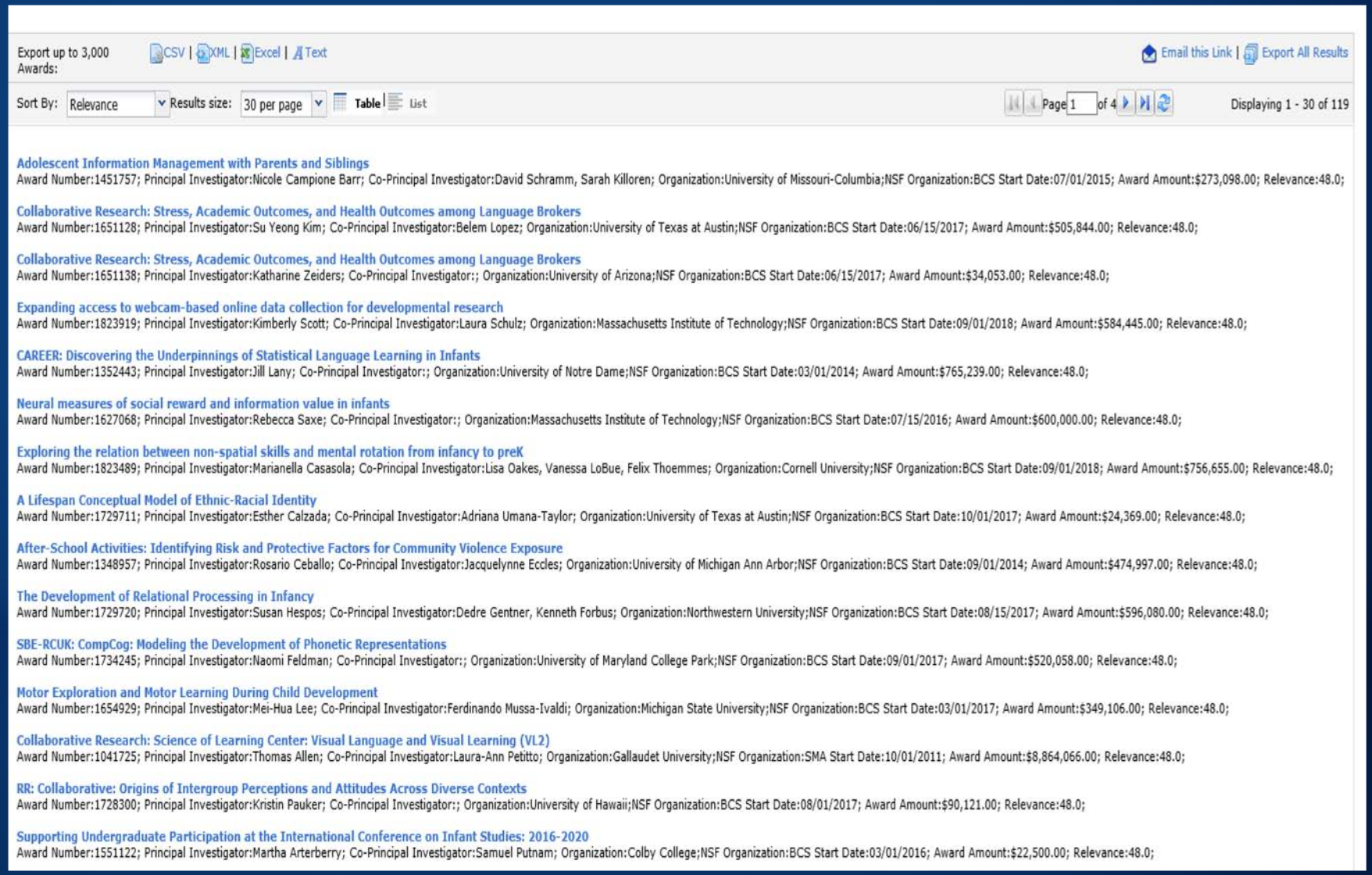
News

Click this!

Find the Right Program: Awards recently made

What has been funded through a particular program?

Click on a title to get the abstract



Export up to 3,000 Awards: CSV | XML | Excel | Text — Email this Link | Export All Results

Sort By: Relevance — Results size: 30 per page — Table | List — Page 1 of 4 — Displaying 1 - 30 of 119

Adolescent Information Management with Parents and Siblings
Award Number:1451757; Principal Investigator:Nicole Campione Barr; Co-Principal Investigator:David Schramm, Sarah Killoren; Organization:University of Missouri-Columbia;NSF Organization:BCS Start Date:07/01/2015; Award Amount:$273,098.00; Relevance:48.0;

Collaborative Research: Stress, Academic Outcomes, and Health Outcomes among Language Brokers
Award Number:1651128; Principal Investigator:Su Yeong Kim; Co-Principal Investigator:Belem Lopez; Organization:University of Texas at Austin;NSF Organization:BCS Start Date:06/15/2017; Award Amount:$505,844.00; Relevance:48.0;

Collaborative Research: Stress, Academic Outcomes, and Health Outcomes among Language Brokers
Award Number:1651138; Principal Investigator:Katharine Zeiders; Co-Principal Investigator:; Organization:University of Arizona;NSF Organization:BCS Start Date:06/15/2017; Award Amount:$34,053.00; Relevance:48.0;

Expanding access to webcam-based online data collection for developmental research
Award Number:1823919; Principal Investigator:Kimberly Scott; Co-Principal Investigator:Laura Schulz; Organization:Massachusetts Institute of Technology;NSF Organization:BCS Start Date:09/01/2018; Award Amount:$584,445.00; Relevance:48.0;

CAREER: Discovering the Underpinnings of Statistical Language Learning in Infants
Award Number:1352443; Principal Investigator:Jill Lany; Co-Principal Investigator:; Organization:University of Notre Dame;NSF Organization:BCS Start Date:03/01/2014; Award Amount:$765,239.00; Relevance:48.0;

Neural measures of social reward and information value in infants
Award Number:1627068; Principal Investigator:Rebecca Saxe; Co-Principal Investigator:; Organization:Massachusetts Institute of Technology;NSF Organization:BCS Start Date:07/15/2016; Award Amount:$600,000.00; Relevance:48.0;

Exploring the relation between non-spatial skills and mental rotation from infancy to preK
Award Number:1823489; Principal Investigator:Marianella Casasola; Co-Principal Investigator:Lisa Oakes, Vanessa LoBue, Felix Thoemmes; Organization:Cornell University;NSF Organization:BCS Start Date:09/01/2018; Award Amount:$756,655.00; Relevance:48.0;

A Lifespan Conceptual Model of Ethnic-Racial Identity
Award Number:1729711; Principal Investigator:Esther Calzada; Co-Principal Investigator:Adriana Umana-Taylor; Organization:University of Texas at Austin;NSF Organization:BCS Start Date:10/01/2017; Award Amount:$24,369.00; Relevance:48.0;

After-School Activities: Identifying Risk and Protective Factors for Community Violence Exposure
Award Number:1348957; Principal Investigator:Rosario Ceballo; Co-Principal Investigator:Jacquelynne Eccles; Organization:University of Michigan Ann Arbor;NSF Organization:BCS Start Date:09/01/2014; Award Amount:$474,997.00; Relevance:48.0;

The Development of Relational Processing in Infancy
Award Number:1729720; Principal Investigator:Susan Hespos; Co-Principal Investigator:Dedre Gentner, Kenneth Forbus; Organization:Northwestern University;NSF Organization:BCS Start Date:08/15/2017; Award Amount:$596,080.00; Relevance:48.0;

SBE-RCUK: CompCog: Modeling the Development of Phonetic Representations
Award Number:1734245; Principal Investigator:Naomi Feldman; Co-Principal Investigator:; Organization:University of Maryland College Park;NSF Organization:BCS Start Date:09/01/2017; Award Amount:$520,058.00; Relevance:48.0;

Motor Exploration and Motor Learning During Child Development
Award Number:1654929; Principal Investigator:Mei-Hua Lee; Co-Principal Investigator:Ferdinando Mussa-Ivaldi; Organization:Michigan State University;NSF Organization:BCS Start Date:03/01/2017; Award Amount:$349,106.00; Relevance:48.0;

Collaborative Research: Science of Learning Center: Visual Language and Visual Learning (VL2)
Award Number:1041725; Principal Investigator:Thomas Allen; Co-Principal Investigator:Laura-Ann Petitto; Organization:Gallaudet University;NSF Organization:SMA Start Date:10/01/2011; Award Amount:$8,864,066.00; Relevance:48.0;

RR: Collaborative: Origins of Intergroup Perceptions and Attitudes Across Diverse Contexts
Award Number:1728300; Principal Investigator:Kristin Pauker; Co-Principal Investigator:; Organization:University of Hawaii;NSF Organization:BCS Start Date:08/01/2017; Award Amount:$90,121.00; Relevance:48.0;

Supporting Undergraduate Participation at the International Conference on Infant Studies: 2016-2020
Award Number:1551122; Principal Investigator:Martha Arterberry; Co-Principal Investigator:Samuel Putnam; Organization:Colby College;NSF Organization:BCS Start Date:03/01/2016; Award Amount:$22,500.00; Relevance:48.0;

Find the Right Program: Abstracts of Awards Recently Made

You can review the abstracts of awards made through a particular program.

Program Manager:	Chalandra Bryant BCS Division Of Behavioral and Cognitive Sci SBE Direct For Social, Behav & Economic Scie
Start Date:	September 1, 2018
End Date:	August 31, 2021 (Estimated)
Awarded Amount to Date:	$756,655.00
Investigator(s):	Marianella Casasola mc272@cornell.edu (Principal Investigator) Lisa Oakes (Co-Principal Investigator) Vanessa LoBue (Co-Principal Investigator) Felix Thoemmes (Co-Principal Investigator)
Sponsor:	Cornell University 373 Pine Tree Road Ithaca, NY 14850-2820 (607)255-5014
NSF Program(s):	DS - Developmental Sciences
Program Reference Code(s):	1698
Program Element Code(s):	1698

ABSTRACT

Mental rotation, the ability to mentally manipulate a visual representation of an object and recognize its appearance from a different orientation, shows stability from infancy through preschool. This ability predicts mathematical achievement in kindergarten and beyond as well as entry into the Science, Technology, Engineering, and Mathematics (STEM) fields. The present work focuses on identifying how non-spatial processes contribute to mental rotation abilities. Findings will help identify ideal time points for intervention, advance understanding of the factors that contribute to mental rotation, and address how individual differences in mental rotation during infancy predict later abilities. This work will involve the creation and refinement of measures that can be used to trace the development of mental rotation from infancy into preschool; thereby, not only contributing new tools to the field, but also yielding insights that can inform current theoretical conceptions of mental rotation and its relation to non-spatial processes.

The critical research question is as follows: What are the non-spatial processes that contribute to mental rotation abilities and their development? Associations between mental rotation, object features, processing bias, and motor experience will be examined using a cross-sequential design with overlapping age cohorts. The investigators will recruit an infant cohort at 8 months, a toddler cohort at 20 months, and a preschool cohort at 3 years. Each cohort will be assessed at three time points -- every six months for infants (i.e., 8, 14, and 20 months), every 8 months for toddlers (i.e., 20, 28, and 36 months), and every year for preschoolers (3, 4, and 5 years). When examined at a specific age, the sample will provide a snapshot into the association between mental rotation and non-spatial skills (i.e., object features, processing bias, and motor experience). The longitudinal design will allow the investigators to follow participants across infancy, toddlerhood, or the preschool years. This approach provides an opportunity to understand how non-spatial skills, such as more precocious motor skills during infancy, may shape mental rotation over time. Such findings are central to bolstering understanding of the possible mechanisms by which particular types of

Note:

- Program Manager
- Duration
- Awarded amount
- Co-funded?
- Topic area

Preparing your Application

Before you apply… READ!!!

SBE Postdoctoral Research Fellowships (SPRF)

PROGRAM SOLICITATION
NSF 17-588

REPLACES DOCUMENT(S):
NSF 16-590

National Science Foundation
Directorate for Social, Behavioral & Economic Sciences
SBE Office of Multidisciplinary Activities

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):
November 01, 2017
October 09, 2018
Second Tuesday in October, Annually Thereafter

IMPORTANT INFORMATION AND REVISION NOTES

The FY 2018 solicitation underwent minor revisions to clarify the requirements of the solicitation and decrease burden on applicants.

- Eligibility information has been revised. Specification that the doctoral degree be obtained in the SBE sciences and justification for remaining at one's doctoral-granting institution were added.
- The sponsoring scientist must be listed as a Co-PI on the proposal's Cover Sheet.
- Award tenure start dates were amended to include the 15th of the month.
- The requirement for two reference letters on the Fellowship candidate has been removed.
- Guidance for registering as an individual in FastLane and completing the Cover Sheet, Project Summary, Project Description, Budget Sheet, Budget Justification, Current and Pending Support, the Postdoctoral Mentoring Plan, and the new Collaborations and Other Affiliations information template were added.

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 18-1), which is effective for proposals submitted, or due, on or after January 29, 2018.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:
SBE Postdoctoral Research Fellowships (SPRF)

Synopsis of Program:
The Directorate for Social, Behavioral and Economic Sciences (SBE) offers Postdoctoral Research Fellowships to encourage independence early in the Fellow's career through supporting his or her research and training goals. The research and training plan of each Fellowship must address important scientific questions within the scope of the SBE Directorate and the specific guidelines in this solicitation. The SPRF program offers two tracks: (I) Focused Research in the SBE Sciences (SPRF-FR) and (II) Broadening Participation in the SBE Sciences (SPRF-BP). See the full text of the solicitation for a detailed description of these tracks.

Cognizant Program Officer(s):
Please note that the following information is current at the time of publishing. See program website for any updates to the points of contact.

- Josie S. Welkom - Acting Program Officer, telephone: (703) 292-7376, email: jwelkom@nsf.gov

THE NATIONAL SCIENCE FOUNDATION

PROPOSAL & AWARD POLICIES AND PROCEDURES GUIDE

Effective January 29, 2018
NSF 18-1
OMB Control Number 3145-0058

Next Steps

After you have narrowed down to programs that match your area of research and you have read the program page and (solicitation):

If you are unsure regarding whether your work fits a given program, reach out to that Program Director by EMAILING a 1-page summary of your planned research project (IM and BI). Get feedback about project fit with program goals

Email ALL relevant programs in a SINGLE email.

Request a phone meeting if the program is a good fit.

- Make this request EARLY (well before the deadline)
- Follow-up if you have not heard back within 1- week
- Ask about other relevant programs and initiatives

Starting a Grant Submission: Your University Submits the Grant Proposal, Not You!

- Start your budget and figure out the direct costs on the activities that you have planned.
- Email your Sponsored Research Office
  - Get a Fastlane ID and log in and start on shorter, but required documents
  - Bring your budget draft to make sure that all necessary costs are included in calculations.
  - Find out what your campus requires for routing timelines and internal approvals are needed. Many campuses require grants to be signed off before the actual grant deadline. Plan for this time.
- Be nice to your SRO

Your Sponsored Research Office (SRO)

- The Sponsored Research office is the authority on the universities' guidelines for research proposals submission to outside entities. They are also instrumental in obtaining official signatures and Fastlane submission.

- Your SRO can help you understand requirements (sections required, page limits, etc.)

- SROs help to develop your budget and determine annual and total costs (includes direct costs to carry out the project and indirect costs – a rate negotiated by your institution and NSF)

Typical Components of an NSF Grant Proposal

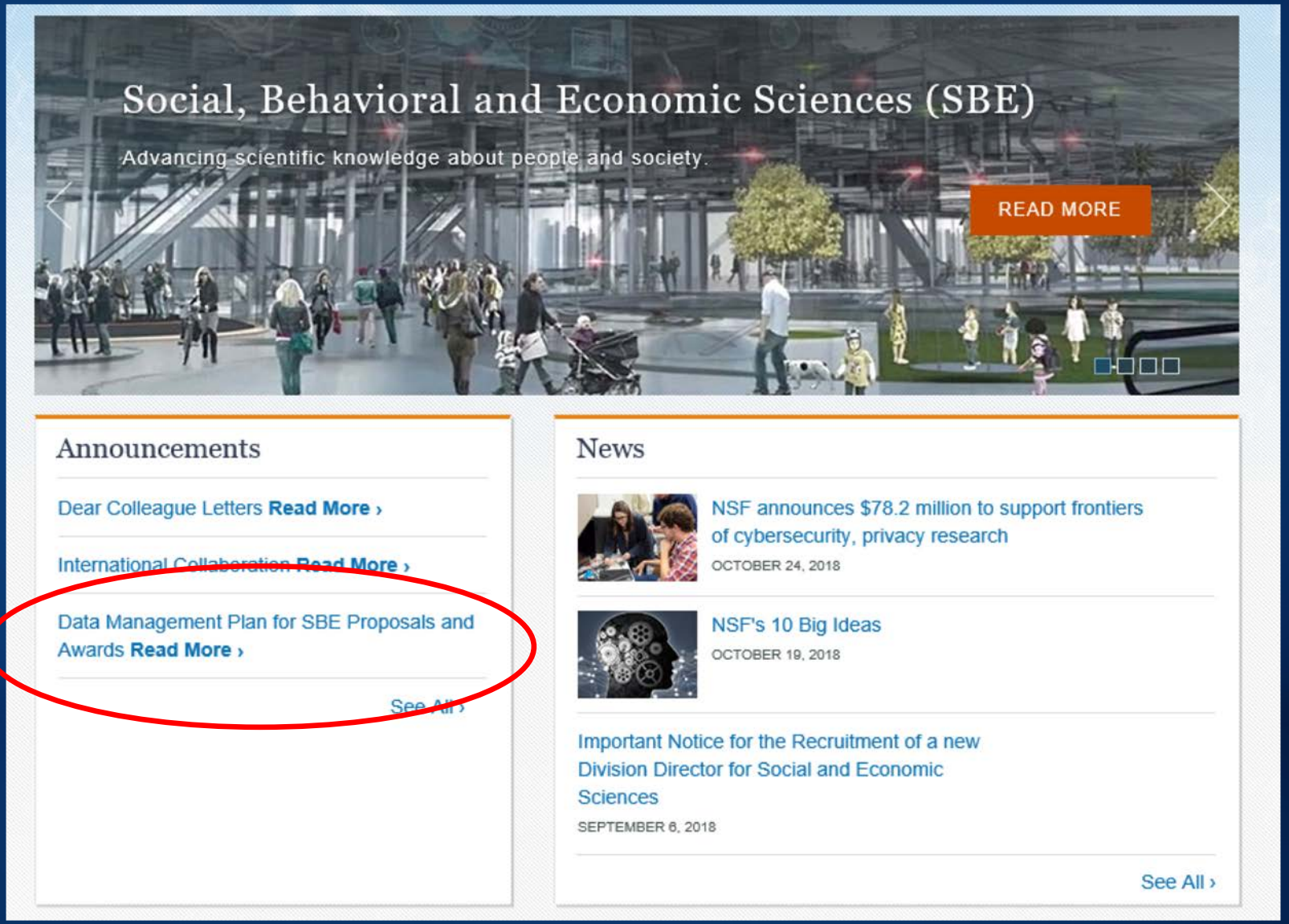
- Cover Page
- Project Summary (1 page)
- Table of Contents (auto-generated)
- Project Description (15 pages)
- References cited
- Biographical sketches (for all senior PIs on the project)
- Budget
- Current and Pending Support
- Facilities, Equipment, and other Resources
- Post-doctoral mentoring Plan (if applicable)
- Data Management Plan
- Supplemental Documentation (if applicable—no letters of support)
- Collaborators and Other Affiliators Document

* Programs may deviate from this list – be sure to read the solicitation closely

Defining the Proposal Budget

- Be attentive to the PAPPG and the different budget categories and what they allow.
- Starting your grant proposal with the budget will help you determine what the scope of the activities are
- Personnel costs, whether PI salary, graduate assistantships, or postdocs, add up quickly once the salary, fringe, and IDC are calculated
- Work with your SRO to understand what costs are allowable, what costs are required (for example, fringe or tuition), and what the final total will be once IDC is calculated

SBE Data Management Plan



NSF Review Criteria

Intellectual Merit - Encompasses the potential to advance knowledge

Broader Impacts - Encompasses the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

Intellectual Merit

- Will the proposed activity advance basic science, knowledge, and understanding within its own field or across different fields?
- Is the project likely to be successful?
  - Qualifications of the proposer/ team
  - Sufficient access to resources
- To what extent does the proposed activity explore creative and original concepts?
- How well-conceived and organized is the proposed activity?

Broader Impacts: the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

- Demonstrate societal impacts with specificity
- Disseminate results broadly to enhance scientific and technological understanding
- Make data available to others, where applicable/appropriate (public access)
- Enhance the infrastructure for research and education, such as facilities, instrumentation, networks and partnerships
- Broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc.)
- Promote teaching, training and learning

Common Pitfalls to Avoid

- Overlooking key aspects of the program announcement and requirements
- Lacking specificity about methods and/ or predictions
- Underdeveloped or vague data analysis plan
- Disconnect between framing/ motivation and proposed activity
- Failing to establish feasibility
- Not tailoring your proposal to the appropriate audience (disciplinary vs. multidisciplinary panel)

Common Myths

- NSF only funds scholars at elite institutions
- NSF only funds “famous” academics
- Once declined, always declined
- Advisory committees make funding decisions

Your Proposal is Declined. What now?

- Develop a thick skin.
- Take time to digest the reviews and then get back up and plan to resubmit if you can address weaknesses noted in the reviews
  - Persistence can pay off!
- Carefully consider how you will address all weaknesses (you don't get extra space) or whether you need to reformulate the project
- Schedule a time to talk to the program director (after you have had time to digest the reviews) to discuss the appropriateness and plans for resubmission

Questions

Thank you!

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