



National Science Foundation

# GROWING RESEARCH ACCESS FOR NATIONALLY TRANSFORMATIVE EQUITY AND DIVERSITY

**SRAI 2023 National Meeting**  
**October 17, 2023**

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# Apply to the National Science Foundation



**Right now is a terrific time to apply to the National Science Foundation (NSF)** for funding to support research projects that expand knowledge in science, engineering and education as well as those that seek to increase the capacity of the U.S. to conduct and exploit such research.

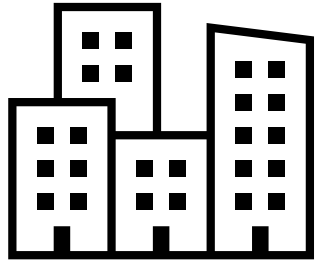
# Overview and Objectives



- State of the Nation's Research Enterprise
- NSF GRANTED
- Developing a GRANTED Proposal
- Advice from the GRANTED Team
- GRANTED Data
- Discussion and Q & A

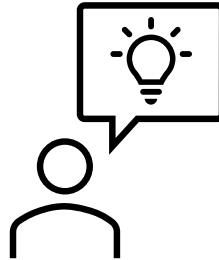


# The Research Enterprise



- facilities
- equipment
- resources

Institutions and Organizations

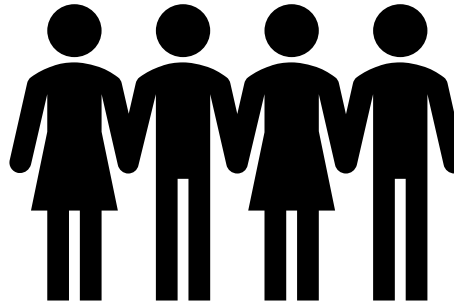


- disciplinary knowledge, networks, experience
- Discovery, technology & innovation pipeline

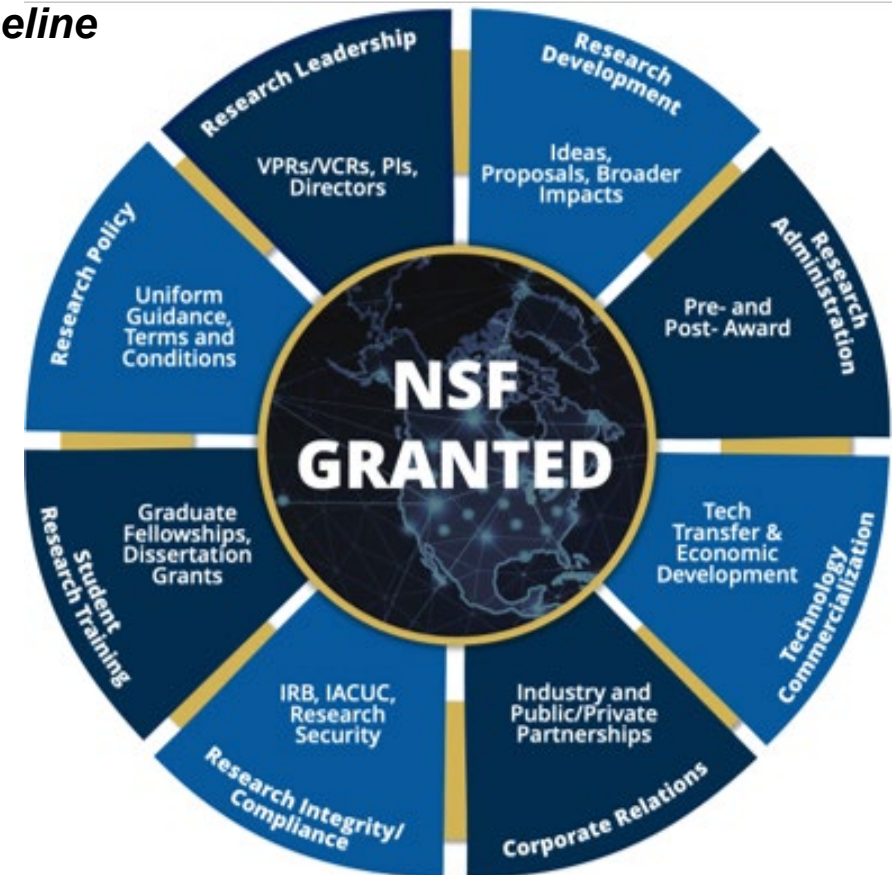
Investigators, Teams, Trainees

**“A strong national research enterprise relies on more than funding for the research itself.”**

NSF PD 23-221Y



**Research enterprise** includes human capital, practices and processes, and partnerships that are related to/impact: *research development, research administration, broader impacts activities, technology transfer and commercialization, corporate relations/public-private partnerships, research integrity, compliance and security, research policy, support of student research training, and research leadership.*





## Research Enterprise in the US

# Research Enterprise Functions



# Challenges within the Research Enterprise



- Assistance and support for research and sponsored activity is not equitably experienced
- Hiring and attrition lead to constant churn of staff
- Remote work options
- Training is available but not equitably accessible
- Some systemic issues - position titles, salaries, position descriptions; Financial processes in the context of external funding
- Faculty workload challenges
- Institutional mission in light of “research”

# WHY GRANTED?



- **NSF proposal submissions and increasing budget**
- **CHIPS and Science legislation -“Emerging Research Institutions”**
- **Awareness and knowledge of research enterprise staff and functions**
- **\$90B (FY21) expended by colleges and universities – access and intentional workforce**
- **Pandemic influences on the workforce – teleworking, remote opportunities**

# NSF Funding Opportunities – General Context



## Types of NSF Funding Opportunities

### **Program Descriptions**

- Like a home base of funding for a program
- Typical in divisions of NSF and have been around for a long time in various research areas.
- Researchers in disciplinary areas know to apply to position descriptions over and over again.
- PD 23-221Y is GRANTED's funding opportunity home base

### **Solicitations**

- Usually have time bound announcements
- Aren't a base of funding for a particular division or program of NSF
- They are often short lived (one or just a few rounds of funding) and may come and go more frequently

### **Dear Colleague Letters (DCLs)**

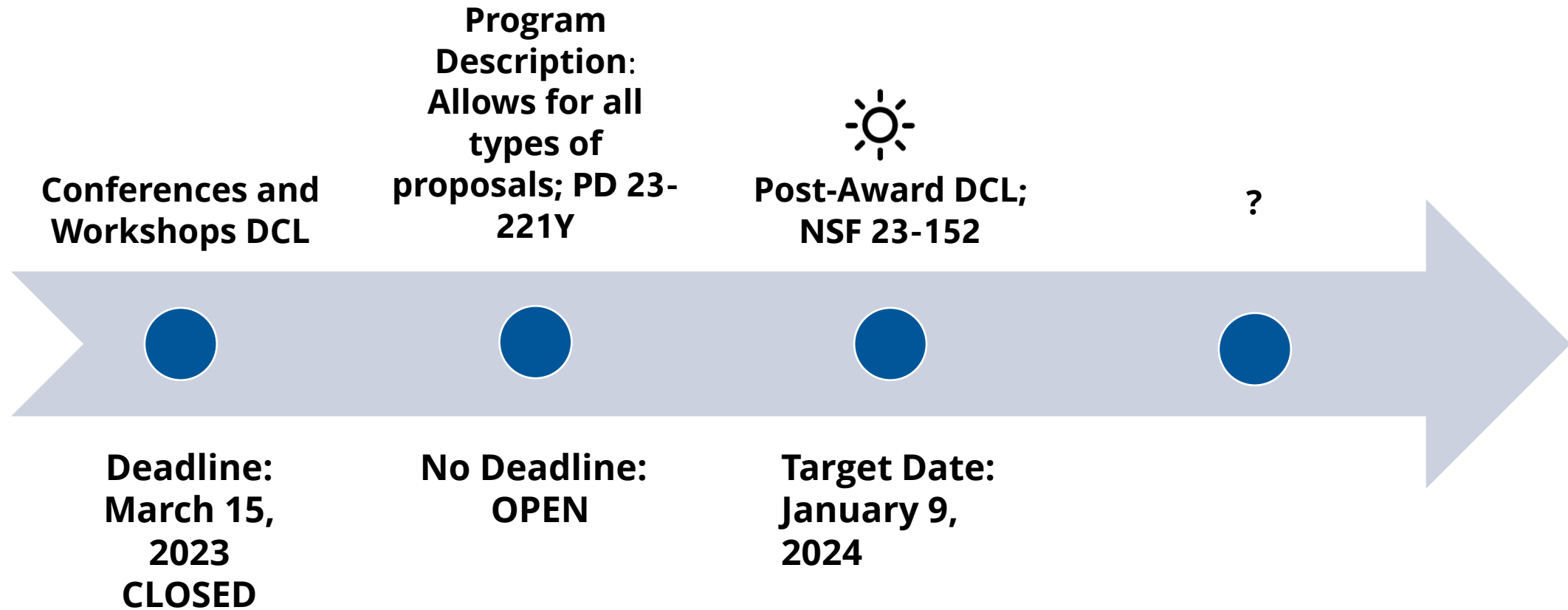
- Can also be thought of as funding opportunities
- Think of them as large blinking lights directing people to funding opportunities (like those in the PAPPG)
- Check out NSF 23-152 - "Growing Access to Post-Award Research Support and Service Infrastructure for Nationally Transformative Equity and Diversity – AND – NSF 23-153 "Advice to the Community About Submitting Proposals to the GRANTED Program Description Funding Opportunity PD 23-221Y."

### **Broad Agency Announcements (BAA)**

- Used by the TIP Directorate and NCSES primarily



# GRANTED Funding Opportunities



## Program Description – PD 23-221Y

### What is it?

- <https://new.nsf.gov/funding/opportunities/growing-research-access-nationally-transformative-0> [make sure you have the “0” included]
- Bold, ambitious ideas that will increase access, catalyze national transformation, and address systemic equity and diversity issues in the research enterprise are encouraged
- Projects must be fully developed and described within the project description
- PIs and Co-PIs could be research enterprise staff
- Project costs – ask for what you need!

## Program Description – PD 23-221Y

### What It’s Not!

- Not a limited submission
- No deadline
- No budget floor, no budget cap
- Project terms should be no more than 5 years
- Does not restrict or discourage any higher education institution or non-profit organization from participating; NSF general eligibility applies
- Does not fund disciplinary research, graduate student training\*, faculty training, or the offering of grant writing workshops\*

\* there are some caveats

# Ideas for GRANTED



- Strengthening the Nation's Research Enterprise is the **goal**
- Gains within PUIs, ERIs and MSIs is a **goal**
- National Transformation of the Research Enterprise is the **Broader Impact**
- **Workforce Development** of research enterprise staff and functions-especially in post-award research administration (GRANTED DCL 23-152)
- **Hiring** research enterprise staff
- **Research** on the research enterprise
- **Evaluating** existing training programs and **scaling** of effective training programs
- **Research on sustainability of programs** that have significant funding
- **Transferrable and Scalable** ways of improving post-award project and program management
- **Research leadership** development
- **Knowledge management** and sharing systems for research enterprise content
- So many more ideas





## Developing a GRANTED Proposal

NSF Proposal Element	GRANTED?
<b>Two review criteria</b>	Yes
Project summary	Yes - standard
<b>Project Description</b>	Yes – PAPPG instructions
<b>References Cited</b>	Yes - standard
PI should have a PhD	No
Co-PI and senior personnel allowed	Yes - standard
Multiple institutions allowed	Yes - collaborative or subaward
Facilities, Equipment and Other Resources	Talk about the research enterprise structure(s)
Biosketches	Yes – standard; lack of publications isn't a problem
Current and Pending Support	Yes – standard; lack of prior funding isn't a problem
Data Management Plans	Yes - standard
Budget	Yes – ask for what you need
Budget Justification	Yes – standard
Other requirements	Yes – standard (follow the PAPPG)



- **Intellectual Merit** – Potential to Advance Knowledge: about the Research Enterprise (HUGE POTENTIAL)
- **Broader Impacts** – Benefits to Society: National Transformation of the Research Enterprise
- Ideas can be implementations, interventions, creation and/or expansions of training related to research enterprise topics, hiring of new staff, data collection efforts, assessments, etc.
- Use prior research and reports when possible to provide context
- Collaborations are great – you likely aren't the only one with the same challenges/issues
- What is stopping you from submitting?

**Developing  
a GRANTED  
Proposal**

# A Suggested Proposal Outline



- What is the challenge/issue?
- How will it be addressed? With whom? Why these choices?
- Summarize any reports, research, publications that relate to this challenge/issue
- Describe the research enterprise for this project (one or more institutions, one or more sectors within the research enterprise, etc.). Anticipate reviewer questions – don't presume they know your research enterprise context
- Details of the project plan, including the team
- Plans for sustainability, growth and/or scaling of the project activity
- Intellectual Merit and Broader Impacts
- Prior related research



- Involve your institutional leadership
- Ask for funds to do the work – stop making do with minimal resources
- Utilize all sections of the Research Enterprise
- We had to justify GRANTED to Congress, you just have to convince reviewers
- Utilize NSF GRANTED staff to discuss ideas
- HIRE SOME PEOPLE!!!!
- Be bold, don't wait; build in evaluation and sustainability plans; think big even if your ideas start small

**Advice  
from  
GRANTED  
Program  
Officers**



# GRANTED Proposal Data – To Date



- **54%** of proposals submitted to GRANTED are from **PUI eligible institutions** (compared to 14% to NSF overall in FY22)
- **26%** of proposals submitted to GRANTED are from **institutions in EPSCoR jurisdictions** (compared to 15% to NSF overall in FY22)
- **29%** of proposals submitted to GRANTED are from **MSIs** (compared to 16% to NSF overall in FY22)
- **67%** of proposals submitted to GRANTED are from **ERIs**

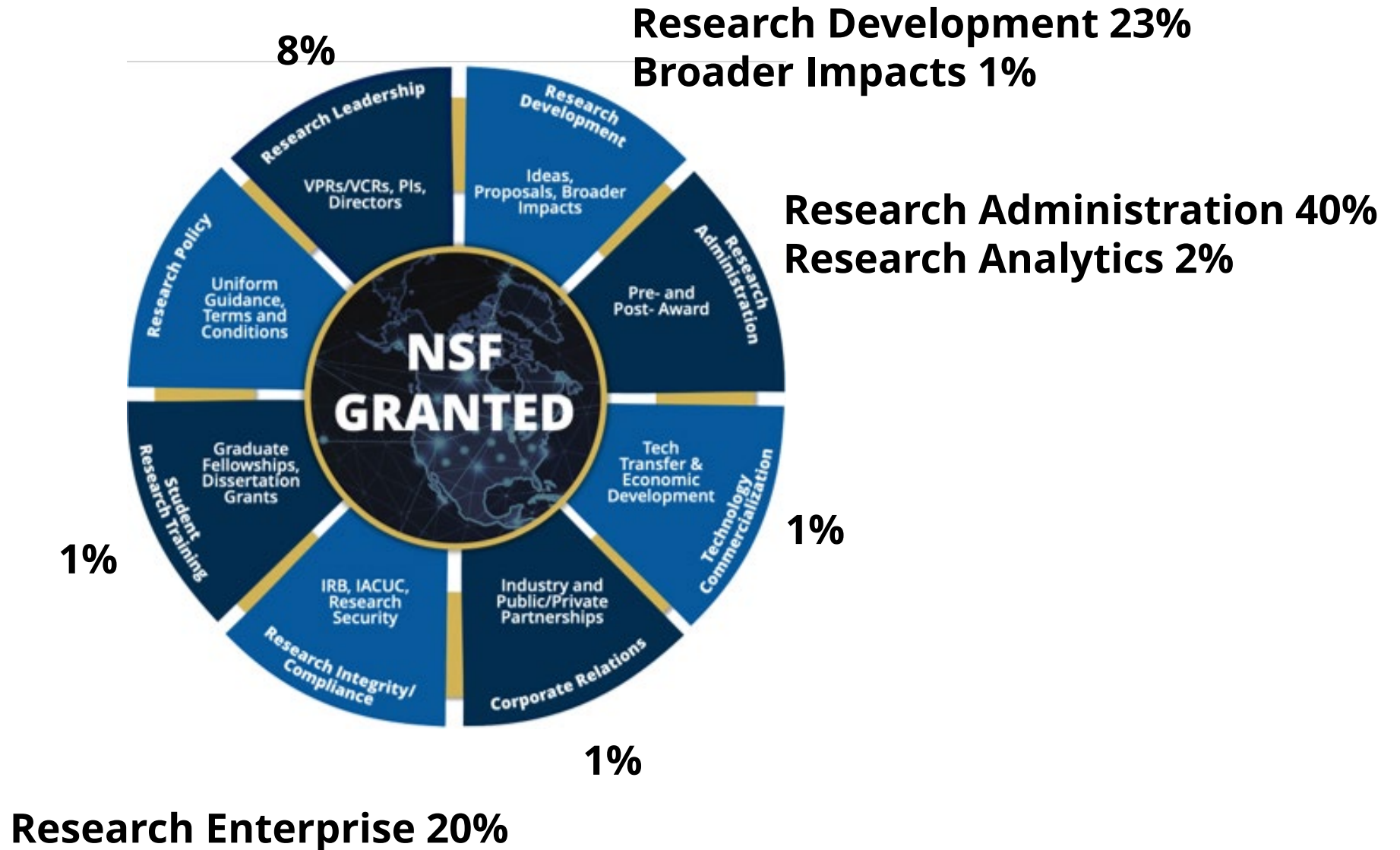
# GRANTED Award Data – To Date



- **44%** of GRANTED awards were made to **PUI eligible institutions** (compared to 29% NSF overall in FY22)
- **28%** of GRANTED awards were made to **institutions in EPSCoR jurisdictions** (compared to 26% NSF overall in FY22)
- **29%** of GRANTED awards were made to **MSIs** (compared to 28% NSF overall in FY22)
- **62%** of GRANTED awards were made to **ERIs**

- **76%** of Lead PIs on GRANTED **proposals** and **82%** of Lead PIs on GRANTED **awards** are **Female**
- **38%** of Lead PIs on GRANTED **proposals** and **38%** of Lead PIs on GRANTED **awards** are **New PIs** (no prior NSF support)
- **30%** of Lead PIs on GRANTED proposals and **28%** of Lead PIs on GRANTED **awards** are **from groups underrepresented in STEM**

# GRANTED Sector Engagement – Proposals Evaluated





Email: [GRANTED@nsf.gov](mailto:GRANTED@nsf.gov); [aknoedle@nsf.gov](mailto:aknoedle@nsf.gov)  
[klittlef@nsf.gov](mailto:klittlef@nsf.gov) [dstroud@nsf.gov](mailto:dstroud@nsf.gov)

Website: <https://new.nsf.gov/funding/initiatives/broadening-participation/granted>

- Join the GRANTED Mailing List
- Volunteer to be a reviewer for GRANTED
- **Office Hours:** Wednesdays, 3-4pm ET
- 23-152 Webinar 10/26/23, 2pm ET
- GRANTED IPA Opportunities