

2024 EPSCoR PI Meeting: Programmatic Updates

Leveraging EPSCoR Investments for Increasing Impact

Day 2 Welcome (May 21, 2024)

Sandra Richardson

**Head, Research Capacity and Competitiveness Section
Office of the Director | Office of Integrative Activities**



NSF EPSCoR
ADVANCING GEOGRAPHIC DIVERSITY IN STEM



NSF Established Program to Stimulate Competitive Research (EPSCoR)

Welcome to the 2024 EPSCoR PI Meeting!

#EPSCoRPI2024 and
#EPSCoR2024

EPSCoR PI Meeting Agenda



nsf.gov/epscor



Tuesday, May 21, 2024

8:00 – 8:45am

Light Refreshments

Optional Meetings with EPSCoR Program Directors

Advanced sign-up required, sign-up sheet located at registration table

8:45 – 9:00am

Greetings and Introduction

Sandra Richardson, Research Capacity and Competitiveness, Section Head

9:00 – 9:30am

CHIPS & Science and Agency Priority Goal Updates

Sandra Richardson, Research Capacity and Competitiveness, Section Head

Alicia Knoedler, Office of Integrative Activities, Head

Sylvia Butterfield, Deputy Assistant Director, Directorate for STEM Education

9:30 – 10:00am

NSF Budget Update

Beth Blue, Branch Chief, Office of Budget, Finance, and Award Management, Budget Division

10:00 – 10:30am

Division of Grants & Agreements and Division of Institution & Award Support Update

Cartia Brown-Morgan, Grants Management Specialist, Office of Budget, Finance, and Award Management, DGA

Liz DeHart, Grant & Contract Cost Analyst, Office of Budget, Finance, and Award Management, DIAS

10:30 – 11:30am

Breakouts: Leveraging NSF Investments for EPSCoR Jurisdictions

- **Leveraging GRANTED for Expanded Capacity Building: Plenary Room**
Dina Stroud, Program Director, GRANTED
- **Engaging with NSF Regional Innovation Engines for Impact in EPSCoR Jurisdictions: Room 2210**
Dmitri Perkins, Program Director, TIP/ITE
- **Mid-scale Research Infrastructure, R1 vs. R2: Room 2220**
Brendy Phelps, Program Director, Office of Integrative Activities

Tuesday, May 21, 2024

11:30am – 12:30pm **LUNCH**

12:30 – 1:30pm **Focused Discussion Roundtables**

1:30 – 2:30pm **Directorate Open House**
Cafeteria: BIO, CISE, EDU, ENG
Portrait Gallery: BFA, OIA, OISE
Room W2160: GEO, MPS
Room W2190, SBE, TIP

2:30 – 3:30pm **Breakouts: Leveraging NSF Investments for EPSCoR Jurisdictions**

- **Leveraging GRANTED for Expanded Capacity Building: Plenary Room**
Dina Stroud, Program Director, GRANTED
Alicia Knoedler, Office of Integrative Activities, Head
- **Engaging with NSF Regional Innovation Engines for Impact in EPSCoR Jurisdictions: Room 2210**
Dmitri Perkins, Program Director, TIP/ITE
- **Mid-scale Research Infrastructure, Management, Requirements, and Strategies: Room 2220**
Randy Phelps, Program Director, Office of Integrative Activities
Denise Pfeifer, Project Manager & Research Administrator,
Boise State University

3:30 – 3:45pm **Closing Remarks**
Karen Marrongelle, NSF Chief Operating Officer

3:45 – 4:00pm **National Conference Update and Farewell**
Matt Andrews, Director, Nebraska EPSCoR
Sandra Richardson, Research Capacity and Competitiveness, Section Head

Contact the FY24 EPSCoR Program Team

- General Inquiries: nsfepscor@nsf.gov
- E-CORE RII Inquiries: EPSCoR-CORE@nsf.gov
- E-RISE RII Inquiries: EPSCoR-RISE@nsf.gov
- EPSCoR Live! Inquiries: epscor-live@nsf.gov
- RCC Section Staff: [NSF Directory](#)
- Section Head (Sandra Richardson): srichard@nsf.gov



EPSCoR Outcome Indicators

EPSCoR GOAL #1: Catalyze research capability across and among jurisdictions

SHORT-TERM

- Increased number of proposal submissions in jurisdiction science priority area(s).
- Increased number highly cited articles.
- Patents awarded and cited.
- Increased collaboration nationally and internationally.

MID-TERM

- Increased federal and other research funding across jurisdictions.
- State science, technology and innovation (STI) policy for competitiveness.
- Increased citation rates of funded research.
- Increased human capital base (proportion of population with advanced degrees).
- Leadership in knowledge production in discipline and field.

LONG-TERM

- Increased jurisdictional proposals/awards (NSF)
- Location preference for major national investments
- Increased federal research funding across jurisdictions
- Increased grant/foundation funding, proposal awards
- Broader awareness of quality S&T workforce
- Jurisdiction ranking in STEM degrees granted (BS, MS, PhD)
- Globally recognized research centers and degree programs
- State ranking in grant/foundation funding
- New/sustained National Research Council (NRC) members
- New/sustained Association of American Universities (AAU) members

EPSCoR GOAL #2: Establish STEM professional development pathways

- Increased engagement of students in research knowledge production.

- Increased # of STEM undergraduate degrees.
- STEM graduates hired in research, technology, and other comparable organization types within the jurisdiction.

- Increased # of STEM graduate degrees.
- Higher quality S&T student, faculty, and workforce.
- Sustained research engagement of a diverse set of institutions.
- Improved network position of faculty researchers.

EPSCoR GOAL #3: Broaden participation of diverse groups and institutions in STEM

- New, diverse, and high-quality students produced.
- New, diverse, and high-quality faculty recruited.

- Scholarships/fellowships awarded to attract and retain groups underrepresented.
- Increased STEM interest and efficacy for individuals underrepresented in STEM.
- Higher quality S&T student body, faculty, and workforce.
- Increased number of nationally-recognized scientists.
- Increased retention rates for students and faculty.
- Improved racial and gender equality and inclusiveness.
- Increased STEM faculty retention, satisfaction, and perceived quality of life.

- Improved DEIA efforts in state law, business, government, and universities.
- Improved research culture

EPSCoR GOAL #4: Effect engagement in STEM at national and global levels

- Increased STEM graduate school acceptance and enrollment.

- Increased STEM graduation rates.
- Inclusion of undergraduate research experiences.
- Enhanced statewide support and allocability of resources for higher education.
- Increased retention rates for students and faculty.

- Improved STEM pipeline in jurisdictions.
- Increased Carnegie ranking status across jurisdictions.
- Sustainable STEM graduation rates.
- Increased proportion of state institutions attracting new high-quality faculty and students.
- Higher education level of population in jurisdictions

EPSCoR GOAL #5: Impact jurisdictional economic development

- New partnerships, including stakeholders.
- Increased university/college engagement with industry.

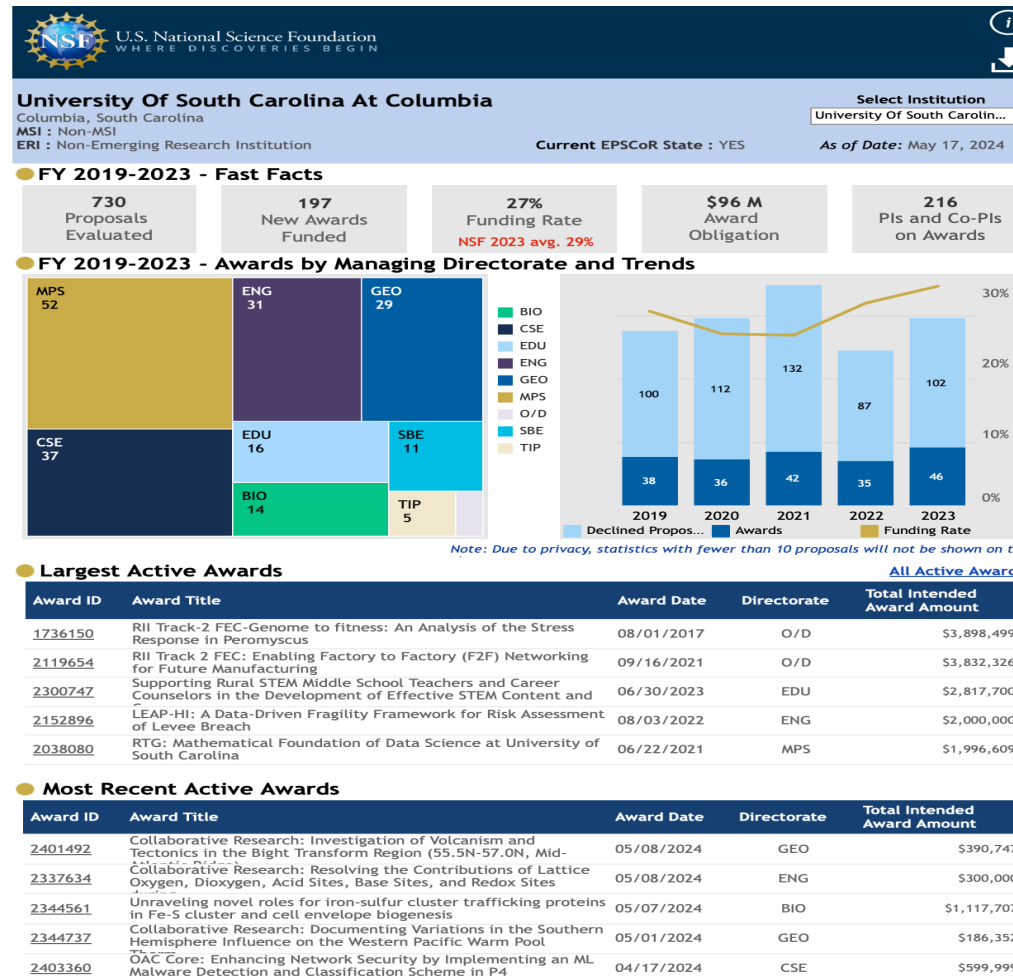
- Degree-relevant job acquisition.
- Increased industry investment in university equipment and facilities.
- Active role of STI organization in facilitating university-institution partnerships and outcomes.
- Public support of universities and the public understanding of science.
- Increased federal and industry research funding.
- Carnegie ranking representations.
- New/proposed policies supporting STEM and academic research.
- Expansion of broadband access.

- Sustainable technology transfer offices at institutions.
- Stable/increased budgets for education, research, university facilities.
- Growth of technology clusters.
- Alignment of state S&T plan to reinforce university-institution synergies.
- New businesses, products, and S&T services.
- Long-term R&D partnership with industry.
- Accelerated innovation and commercialization cycles.
- Industry spinoffs.
- Venture capital investment.
- Industry shift to knowledge, science intensive, high technology.
- Improved economic productivity and stability.



New NSF Institutional Fact Sheets

<https://tableau.external.nsf.gov/views/InstitutionFactsheet/InstitutionSnapshot?%3Aembed=y&%3Aiid=1&%3AisGuestRedirectFromVizportal=y>





EPSCoR Live!

WEBINAR

June 3rd, 4:00 p.m. to 5:00 p.m. EDT

Topic: NSF Office of Legislative and Public Affairs will discuss the new NSF Policy on Brand Standards, the NSF brand identity and how to apply its brand elements effectively. The proper procedures for use of NSF and EPSCoR logos will also be discussed.

How to Attend: Advance registration is required. [Click here to register.](#) Please use an institutional email address for registration.

Additional June EPSCoR Live!

June 20th

Topic: Exploring EPSCoR Ecosystems



General Requests

- Know your cognizant Program Officer (PO)
 - some projects will have new PO assignments beginning June
 - research.gov will always have most current info
 - Increment release based on PO review and approval of annual report
- Ensure your project's PI is receiving NSF EPSCoR email announcements, requests, and updates
 - Anyone can sign up for RCC and EPSCoR updates ([sign up here](#)) or go to [nsf.gov/epscor](https://www.nsf.gov/epscor)
- Invite cognizant PO to jurisdictional All Hands Meeting
- Consider serving as a reviewer for EPSCoR and other NSF programs
- Nominate colleagues for membership on NSF federal advisory committees via the Federal Register Committee call
 - [Visit the notice page on the Federal Register](#)
 - Self-recommendations are accepted
- Remember availability of NSF EPSCoR logos



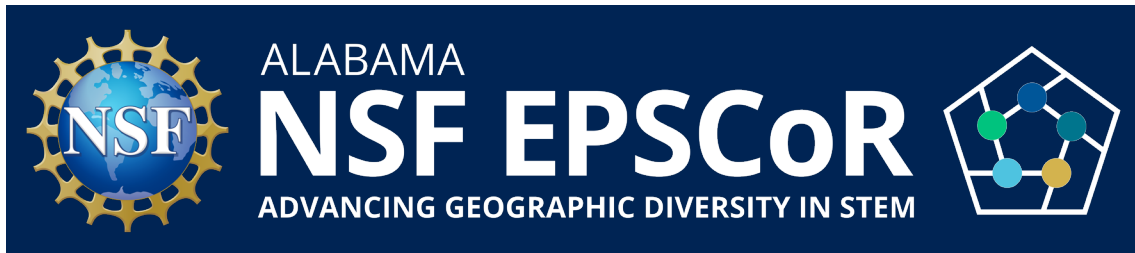
NSF EPSCoR Logo



- **5 nodes:** 5 interconnected goals of EPSCoR: Catalyze, Establish, Broaden, Effect and Impact.
- Each node is a different color to represent the diversity of our jurisdictions.
- **The pentagon** represents the EPSCoR community as a homebase for EPSCoR's goals that are situated within the overall mission.



NSF EPSCoR Logo for 28 Jurisdictions



- The logos developed for the NSF EPSCoR program should be used widely and must not be deconstructed or altered.
- State logo variations are downloadable at <https://nsf.widencollective.com/portals/5t1aweok/NSFEPSCoRLogos>
- NSF will be using these logos when communicating about EPSCoR. Consistent use of these logos will help strengthen the EPSCoR brand and community.



CHIPS and Science Act Update



EPSCoR Provisions in CHIPS and Science Act (2022)

Sec 10325. Expanding geographic diversity

- **Target 1** (CHIPS Sec 10325 a.3.A): Authorization of a gradual increase in percentage of NSF funding for institutions in EPSCoR jurisdictions.

FY23	FY24	FY25	FY26	FY27	FY28	FY29
15.5%	16%	16.5%	17%	18%	19%	20%

- **Target 2** (CHIPS Sec 10325 a.3.B): Authorization of a gradual increase in percentage of NSF funding of scholarships, graduate fellowships and traineeships, and postdoctoral awards to support institutions in EPSCoR jurisdictions.

FY23	FY24	FY25	FY26	FY27	FY28	FY29
16%	18%	20%	20%	20%	20%	20%



EPSCoR Provisions in CHIPS and Science Act (2022)

Target 3 (CHIPS Sec 10325 a.3.C): NSF will prioritize funding and activities that enable sustainable growth in the competitiveness of EPSCoR jurisdictions, including:

- (i) infrastructure investments to build research capacity in EPSCoR jurisdictions;
- (ii) scholarships, fellowships, and traineeships within new and existing programs to promote development of sustainable research and academic personnel;
- (iii) partnerships between eligible organizations in EPSCoR and non-EPSCoR jurisdictions to develop administrative, grant management, and proposal writing capabilities;
- (iv) capacity building activities for Emerging Research Institutions (ERIs) and Minority Serving Institutions (MSIs); and
- (v) leveraging the Partnerships for Innovation Program to build sustainable innovation ecosystems in EPSCoR jurisdictions.



Progress in Agency-level Spending for Target 1

- The FY23 actual amount invested in EPSCoR jurisdictions, \$1,204.98M, represents an investment rate of 15.9% according to legislative direction laid out in the CHIPS and Science Act.
- FY24 EPSCoR jurisdiction investment target will be 16%; the dollar amount of this target is pending confirmation of NSF's proposed FY24 Current Plan.

Agency-level Spending Target

(Dollars in Millions)

	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Percent Target	15.5%	16.0%	16.5%	17.0%	18.0%	19.0%	20.0%
Dollar Target	\$1,176.00	TBD	TBD	TBD	TBD	TBD	TBD
Resulting Investment	\$1,204.98	TBD	TBD	TBD	TBD	TBD	TBD



Progress in Agency-level Spending for Target 2

- The FY23 actual amount invested in EPSCoR scholarships, fellowships, etc., \$60M, represents an investment rate of 18.5% according to legislative direction laid out in the CHIPS and Science Act.
- FY24 EPSCoR jurisdiction investment target will be 18%; the dollar amount of this target is pending confirmation of NSF's proposed FY24 Current Plan.

Scholarships Spending Target

(Dollars in Millions)

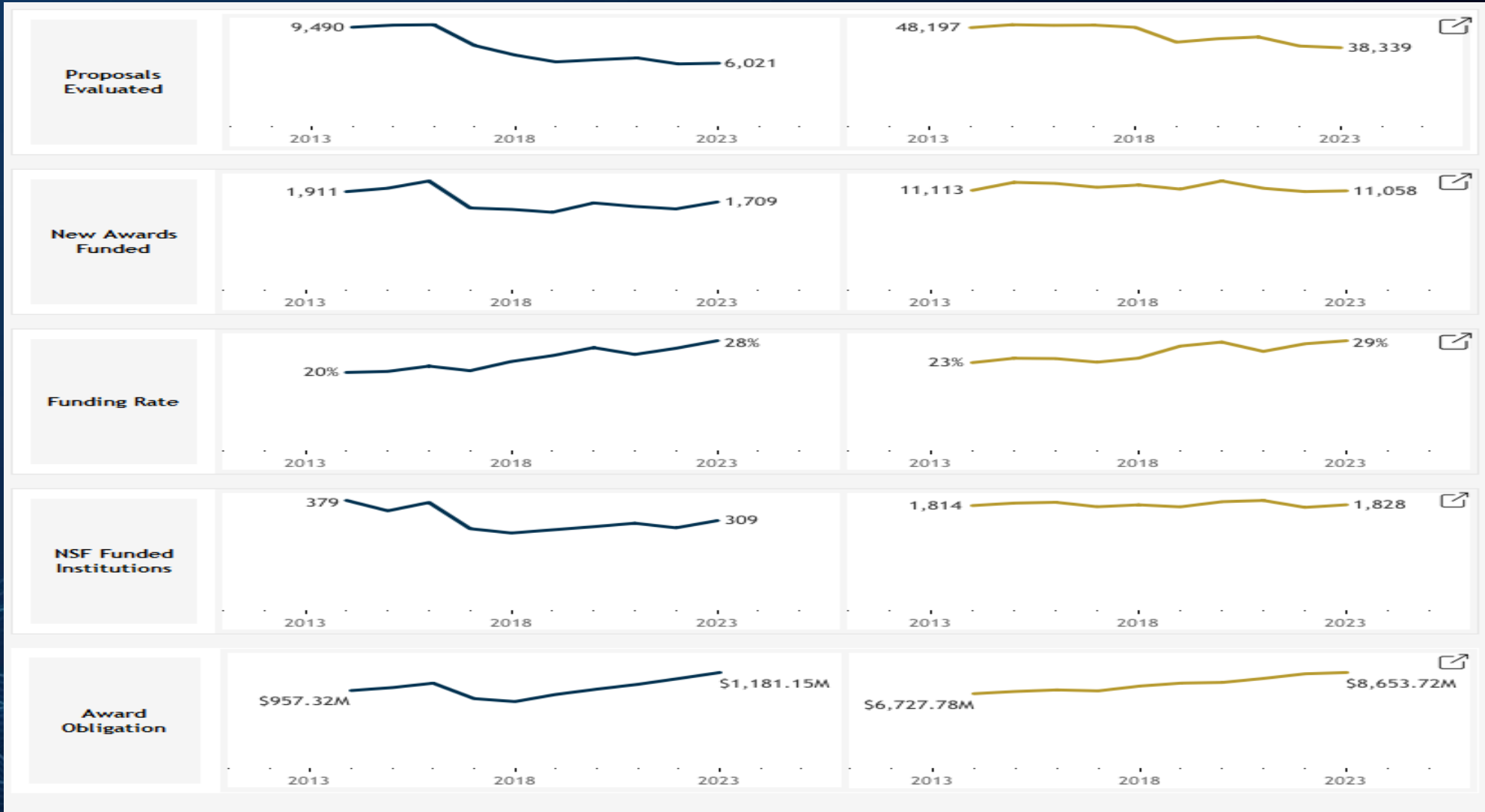
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Percent Target	16.0%	18.0%	20.0%	20.0%	20.0%	20.0%	20.0%
Dollar Target	\$51.87	TBD	TBD	TBD	TBD	TBD	TBD
Resulting Investment	\$60.00	TBD	TBD	TBD	TBD	TBD	TBD



NSF By the Numbers

Data for all Institutions in EPSCoRJUs (FY13-23)

Data for all States (FY13-23)



[Link to data source](#)

New NSF Dear Colleague Letters and Programs

- NSF 24-079 (April release): Expanding Geographic and Institutional Diversity in Social, Behavioral, and Economic Sciences
- NSF 24-077 (April release): Enhancing STEM Education, Research Capacity, and Workforce Development in EPSCoR Jurisdictions
- NSF 24-056 (Feb release): Expanding Geographic and Institutional Diversity in Computer and Information Science and Engineering (CISE)
- EPSCoR Centers of Research Excellence in Science and Technology (EPSCoR CREST Centers) – Solicitation Coming Soon
(<https://new.nsf.gov/funding/opportunities/epscor-centers-research-excellence-science>)



Agency Collaboration and Implementation

- EPSCoR Strategy, Engagement, and Consultation Working Group
- Workshops, Outreach, and Engagement
 - NSF Open House at EPSCoR PI Meeting
 - TIP Workshop (Dec 2023): Increasing participation of EPSCoR jurisdictions in translational research in NSF
 - HBCU EPSCoR Regional Outreach event (February)
- NSF Advisory Committee Engagement
- Data Tools for Internal Analysis



Additional Conversation

