

NSF Chemistry Division Office Hours

Broadening Participation, Diversity,
Equity and Inclusion in Chemistry

Friday, October 29, 2021
4pm EDT

*Please mute your microphone at all times except when
speaking*



Introduction and Welcome



AGENDA

- Brief summary of NSF/MPS/CHE programs related to broadening participation
- 4:15-4:45 Discussion of provided topics (breakout rooms)
- 4:45-5:15 Report back of main outcomes from each breakout
- 5:15-5:30 Additional general discussion and Q&A



Student & Postdoc funding

REU (undergraduate)

GRFP (graduate)

Ascend – *New!* (postdoc)

Supplements (grad/PD/faculty)

Faculty funding

HBCU-EiR & -UP

CREST & HBCU-RISE

PREC – *New!*

RUI & ROA

LEAPS – *New!*

RARE



Graduate Research Fellowship Program (GRFP):

- U.S. citizens, nationals, and permanent residents
- 3 years of support: undergraduates, baccalaureate recipients, or 1st & 2nd year graduate students

Research Experiences for Undergraduates (REU):

- *REU Supplements*: funds added to existing NSF award (1-2 students)
- *REU Sites*: funds 8-10 undergrad stipends for research experiences in host institution (common research theme)

ASCEND Postdoctoral Fellow Program:

- Broaden participation of URMs in MPS fields as future leaders
- Provide experiences in research to broaden perspectives, facilitate interdisciplinary interactions



Supplemental funding for existing NSF awards.

Examples include:

MPS-AGEP-GRS: Supplements support additional graduate researchers to broaden participation by members of underrepresented groups

MPS-GRSV: Graduate Research Supplement for Veterans

INTERN: Supplements support non-academic research internships for graduate students

CHE-International Supplements: To add a new, or strengthen an existing, international dimension of an award

FASED: Supports persons with physical disabilities by providing special equipment and assistance under NSF awards

NSF's Career-Life Balance Initiative: a set of policies and practices to increase the placement, advancement, and retention of people with family obligations in STEM disciplines.



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HBCU Excellence in Research (EiR): supports standard research awards to strengthen research capacity at HBCUs

HBCU Undergraduate Program (HBCU-UP)

Research Initiation Awards (RIA): For STEM faculty with no prior/recent research funding to pursue research at the home institution, an NSF-funded research center, a research-intensive institution, or a national lab

Targeted Infusion Projects (TIP): Short-term, well-defined goals for improving the quality of undergrad STEM education at HBCUs

Broadening Participation Research (BPR): New theory-driven models and innovations related to the participation and success of underrepresented groups in STEM undergrad education

Implementation Projects (IMP): Comprehensive institutional efforts for increasing the number of students receiving undergrad degrees in STEM and enhancing the quality of their preparation. Achieving Competitive Excellence (ACE) IMPs, build upon previous IMPs

Broadening Participation Research Centers (BPRC): For institutions that have held three rounds of Implementation with demonstrated capability to conduct broadening participation research



CREST and HBCU-RISE: Provides support to enhance the research capabilities of minority-serving institutions (MSI).

5 project types:

Centers of Research Excellence in Sci. & Tech. (CREST): Multi-year, typically 5 yrs

Partnership Supplements: Supports collaborations between active CREST Centers and nationally or internationally recognized research centers (including private sector labs, govt. facilities, museums, and more)

Postdoctoral Research Fellowship (PRF): Recognizes beginning CREST Center investigators

HBCU Research Infrastructure for Science and Engineering (RISE): Supports the development of research capability at Historically Black Colleges and Universities that offer doctoral degrees

SBIR/STTR Phase IIa Diversity Collaboration Supplements: Supports collaborations between SBIR/STTR Phase II projects and institutions that have active CREST Center or HBCU-RISE awards



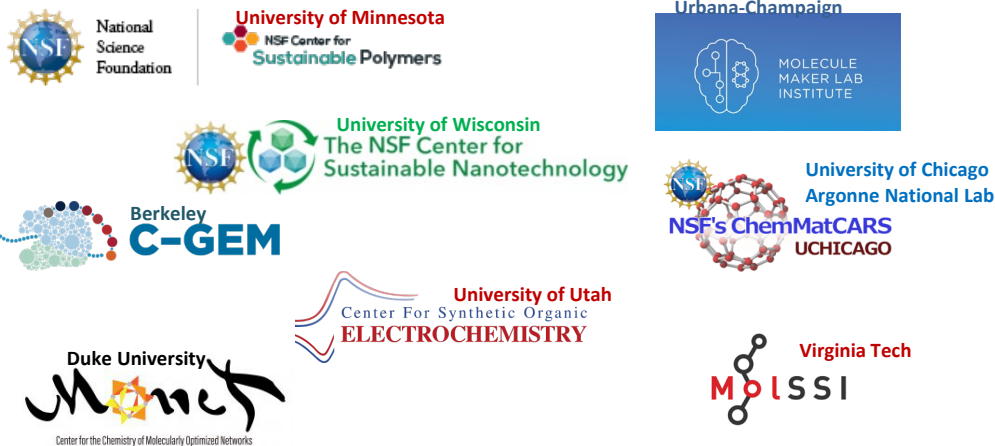
PREC: Partnerships for Research and Education in Chemistry

- Enable, build, and grow *partnerships* between minority-serving institutions and CHE-supported Centers, Facilities and Institutes...
- Increase recruitment, retention and degree attainment (the **PREC Pathway**) by members of those groups most underrepresented in chemistry research
- Support excellent research and education endeavors that strengthen such partnerships

Submission **DEADLINE: January 21, 2022**; Solicitation: 21-620

<https://beta.nsf.gov/funding/opportunities/partnerships-research-and-education-chemistry-prec>

FY22 PREC Partners



- Track 1
 - Limited size and scope (1-2 MSI PIs)
 - Develop capacity in at least one segment of the PREC pathway within the duration of the award
 - \$300,000/year for three years
- Track 2
 - More extensive team from one or more MSIs
 - Greater reliance on expanded research collaborations as well as education partnerships as mechanisms to support multiple components of the PREC pathway
 - \$600,000/year for three years
- For either track: impact is measured relative to the starting point of the institutions involved



Research Opportunity Award (ROA):

- Enable RUI-faculty to pursue research with NSF-supported investigators
- Usually summer experiences, but can be partial support of sabbaticals. Provides salary/stipend for undergrad faculty, travel to host lab, meetings, supplies

Launching Early-Career Academic Pathways (LEAPS):

- To initiate the research careers of pre-tenure faculty in tenure-track positions, particularly those at MSIs, including HBCUs, HSIs, TCUs, AANAPISIs, PUIs, R2s

Re-entry into Active Research Program (RARE):

- *Track 1:* Re-engages investigators having a gap in record due to research hiatus
- *Track 2:* Retrains investigators to enable competitive research activity

Other Programs in Support of Broadening Participation

- **Louis Stokes Alliances for Minority Participation (LSAMP):** Assists universities and colleges in diversifying the nation's STEM workforce.
- **Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program):** To enhance the quality of undergraduate STEM education at Hispanic-serving institutions.



Discussion

Breakout sessions: 4 - 4:45pm

All groups report 2-3 main points: 4:45 - 5:15pm



Discussion Guidelines

You will automatically be sent to a random breakout room. Choose one person to take notes and report 2-3 main points of discussion back to full group at 4:45. NSF staff are here as resource people – recognize by “NSF” in Zoom name. Main Zoom room will remain open at all times.

Topics for discussion (Choose one, discuss both if time allows):

THESE TOPICS WILL ALSO BE POSTED IN THE ZOOM CHAT SO YOU CAN ACCESS THEM ONCE IN A BREAKOUT ROOM

- A. What type of critical resources and structures result in the thriving of faculty and students in STEM at HBCUs, Minority Serving Institutions (MSIs) and under-resourced schools? What is inhibiting retention at all levels?

- B. What are some of the best practices that would increase retention of students from historically underrepresented groups in STEM at graduate schools?

