



*AAAS HBCU Making and Innovation
Showcase*

Grants and Resources for HBCU Faculty

HBCU-UP and CREST Programs

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**Directorate for Education & Human
Resources (EHR)
Division of Human Resource
Development (HRD)**

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Education and Human Resources Directorate

Education and Human Resources (EHR)

EHR supports excellence in U.S. STEM education at all levels, in all settings for the development of a diverse and well-prepared workforce of scientists, technicians, engineers, mathematicians and educators and a well-informed citizenry.

[Read More](#)

Office of the
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(OAD)

Division of Graduate
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Division of Human
Resource
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Division of Research
on Learning in
Formal and Informal
Settings (DRL)

Division of
Undergraduate
Education (DUE)



Education and Human Resources Directorate

Human Resource Development (HRD)

HRD programs support and promote activities that seek to strengthen STEM education for underserved communities, broaden their participation in the workforce, and add to our knowledge base about programs of inclusion.

AGEP: Alliances for Graduate Education and the Professoriate

ADVANCE: Organizational Change for Gender Equity in STEM

ECR: EHR Core Research and Development (Broadening Participation)

CREST: Centers of Research Excellence in Science and technology

HSI: Improving Undergraduate STEM Education-Hispanic Serving Institutions

EASE: Excellence Award in Science and Engineering

LSAMP: Louis Stokes Alliances for Minority Participation

HBCU-UP: Historically Black Colleges & Universities Undergraduate Program

NSF INCLUDES: Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science

TCUP: Tribal Colleges and Universities Program



CREST Program NSF 18-509

Centers of Research Excellence in Science and Technology (CREST)

Enhance the research capabilities of minority-serving institutions

HBCU Research Infrastructure for Science and Engineering (RISE)

Support the development of research capability at Historically Black Colleges and Universities that offer doctoral degrees in science and engineering disciplines.

CREST Postdoctoral Research Fellowship (PRF)

Provide research experience and training for early career scientists at active CREST Centers.

[Centers of Research Excellence in Science and Technology \(CREST\) and HBCU Research Infrastructure for Science and Engineering \(RISE\) \(nsf18509\) | NSF - National Science Foundation](#)



Types of Projects Funded

CREST:

Supports science and technology infrastructure improvements identified by the institution as being critical to its future research and development competitiveness.

HBCU-RISE:

Supports faculty release time, technical support for research, faculty professional development, acquisition or upgrading of research equipment, development of new advanced level curricula or courses, and collaborative research.

CREST-PRF:

Offers 2-year Postdoctoral Research Fellowships (PRF) to provide opportunities for CREST Center scientists early in their careers to obtain training beyond their graduate education.



Program Information

Deadlines

CREST: Letter of Intent - First Friday in December, Every Other Year
Preliminary Proposals - Third Thursday in February, Every Other Year
Full-Proposal - First Friday in December, Every Other Year

HBCU-RISE: Letter of Intent - First Friday in December, Annually
Full-Proposal - Second Thursday in February, Annually

CREST-PRF: Full-Proposal - First Friday in December, Annually

Funding Amounts

CREST: \$1,000,000 annually (i.e., a maximum of \$5,000,000)

HBCU-RISE: Not exceed \$1,000,000 during a three-year period

CREST-PRF:

- Annual stipend of \$70,000/yr
- Annual fellowship allowance of \$30,000/yr
- Up to \$50,000 for research and travel expenses at a non-CREST Center institution



For more information

Websites

<https://beta.nsf.gov/funding/opportunities/centers-research-excellence-science-and-technology-crest-and-hbcu-research>

<https://www.crestweb.org/>

Program Contact

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Historically Black Colleges and Universities

Undergraduate Program (HBCU-UP)

Goal: To enhance the quality of undergraduate STEM education and research at HBCUs in order to broaden participation in the nation's STEM workforce and STEM graduate programs.

Supports development, implementation, and the study of evidence-based, innovative models and approaches to prepare HBCU undergraduates for STEM workforce.

- Innovation in instruction and curriculum development
- STEM research experiences for undergraduates
- Critical transitions (K-12 to undergraduate, 2-year to 4-year, retention from freshman to sophomore, undergraduate to graduate)
- STEM faculty professional and leadership development
- Enhance STEM faculty research
- Research capacity building
- Broadening participation research in STEM Education
- STEM teacher preparation



How do you seek to advance STEM Education and Research at HBCUs?

Faculty Research

- Broadening Participation Research (BPR) in STEM
- Research Initiation Awards (RIA)

Institutional Change

- Targeted Infusion Projects (TIP)
- Implementation Projects (IMP)
- Achieving Competitive Excellence (ACE) Implementation Projects

National Impact

- Broadening Participation Research Centers (BPRC)



Proposal Types, Funding Levels and Duration

- **Broadening Participation Research in STEM**
 - Project Length: Up to 3 years
 - Award Size: Up to \$350,000
- **Research Initiation Awards**
 - Project Length: Up to 3 years
 - Award Size: Up to \$300,000
- **Targeted Infusion Projects**
 - Project Length: Up to 3 years
 - Award Size: Up to \$400,000
- **Implementation Projects**
 - Project Length: Up to 5 years
 - Award Size: Up to \$1.25-\$2.25 Million
- **ACE Implementation Projects**
 - Project Length: Up to 5 years
 - Award Size: Up to \$3 Million
- **Broadening Participation Research Centers**
 - Project Length: Up to 5 years
 - Award Size: Up to \$9 Million
- **Other types of Funding**
 - EAGER (22-1)
 - RAPID (22-1)
 - RAISE (22-1)
 - Conference (22-1)
 - CAREER (NSF 20-525)
 - MCA (NSF 21-516)
- **Upcoming Deadlines**
 - Letter of Intent
 - RIA: July 26, 2022
 - BPR/TIP/IMP/ACE: September 13, 2022
 - Full Proposals
 - RIA: October 4, 2022
 - BPR/TIP/IMP/ACE: November 10, 2022
 - BPRC: November 22, 2022*



For more information

Website

<https://beta.nsf.gov/funding/opportunities/historically-black-colleges-and-universities-undergraduate-program-hbcu>

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- 2) Leave the subject line blank
- 3) The body of the message should say: subscribe HBCU 'your full name'

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Program Contact

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