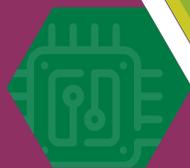


Improving the quality  
and effectiveness of  
undergraduate education in  
all **STEM** fields



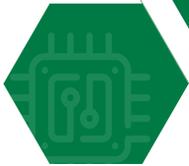
# IUSE EHR Program

IUSE \ Improving Undergraduate STEM Education

EHR \ Directorate for Education and Human Resources



National Science Foundation  
WHERE DISCOVERIES BEGIN



The Improving Undergraduate STEM Education (**IUSE**) Program is managed by the Division of Undergraduate Education (**DUE**) within the Directorate for Education and Human Resources (**EHR**) at the **National Science Foundation**.

# Mission

IUSE \ EHR PROGRAM

To improve undergraduate  
**STEM** teaching and learning  
and to enhance the institutional  
environment that supports  
**STEM** teaching and learning.

IUSE \ Improving Undergraduate **STEM** Education  
EHR \ Directorate for Education and Human Resources

# ELIGIBILITY

Proposals accepted from all types of institutions of higher education and from professional societies or organizations that represent institutions of higher education.



# Awards by Institution Type

## FUNDING



## DEGREE



# PROGRAM TRACKS

Program tracks support projects ranging from improving student learning to institutional transformation, with activities that span first efforts to mature work seeking to deepen and broaden its impact. NSF also welcomes replication research that aims to validate or expand previous findings.

Additional information about tracks, levels, and proposal submission requirements is available in the IUSE: EHR solicitation (NSF 19-601).



TRACK

1

**ENGAGED STUDENT LEARNING**

- ▾ Focuses on improving student learning outcomes
- ▾ Supports development of improved instructional materials and/or methods
  - ▾ Aims to engage students, improve learning, and increase retention and graduation in **STEM**

TRACK

2

**INSTITUTIONAL AND COMMUNITY TRANSFORMATION**

- ▾ Focuses on improving evidence-based instruction by academic departments, institutions, institutional consortia, and other organizations or communities
- ▾ Supports efforts to build and understand systemic change in undergraduate **STEM** education
  - ▾ Aims to apply appropriate theories of change to transform institutions



# TRACK 1

## ENGAGED STUDENT LEARNING

### LEVEL

1

Supports early stage or exploratory projects with funding up to \$300,000 for up to three years. DEADLINES: First Tuesday of February and August.

### LEVEL

2

Supports design and development efforts or impact studies with funding from \$300,001 - \$600,000 for up to three years. DEADLINES: December 4, 2019; first Tuesday in December thereafter.

### LEVEL

3

Supports large-scale design and development studies or impact research to benefit large numbers of students or broad communities of faculty with funding from \$600,001 - \$2,000,000 for up to five years. DEADLINES: December 4, 2019; first Tuesday in December thereafter.

## TRACK 2

# INSTITUTIONAL AND COMMUNITY TRANSFORMATION

### CAPACITY-BUILDING

For institutions without prior Institutional and Community Transformation funding to support assessing institutional needs and identifying a project of interest, with funding from \$150,000 – \$300,000 for up to two years. DEADLINES: First Tuesday of February and August.

#### LEVEL

1

Supports early-stage exploratory projects or small to mid-scale projects that build on prior work with funding up to \$300,000 for up to three years. DEADLINES: First Tuesday of February and August.

#### LEVEL

2

Supports research that examines and/or incorporates broad communities of institutions, departments, or faculty with funding from \$300,001 – \$3,000,000 for up to five years. DEADLINES: December 4, 2019; first Tuesday in December thereafter.



WRITING A

# SUCCESSFUL PROPOSAL

Build on what is known: summarize published literature and define a starting point that extends these studies.

Use evidence-based practices.

Include research and/or evaluation to provide new knowledge related to your project goals.

Describe a strong plan to assess outcomes and evaluate project success.

Explain how you will make your materials and findings available to the public.

Collaborate as needed! Collaborators can be anyone who can contribute to the work.

Refer to the NSF Proposal & Award Policies & Procedures Guide.

Proposals for conferences and workshops addressing important challenges in undergraduate STEM education may be submitted at any time following consultation with a cognizant NSF IUSE program officer.





## FUNDING INFORMATION

For more information about funding visit:

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505082](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505082)

## CONTACT INFORMATION

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