Persons with Disabilities in STEM and STEM Education

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Division of Equity for Excellence in STEM (EES)
Directorate of STEM Education (EDU)
U.S. National Science Foundation
Broadening the Participation of Persons with Disabilities in STEM and STEM Education

Advancing STEM and STEM Education Disability Research

Workplace Equity for Persons with Disabilities in STEM and STEM Education

Computer and Information Science and Engineering : Core Programs /
IIS: Human-Centered Computing (HCC)

Science of Learning and Augmented Intelligence

Disability and Rehabilitation Engineering (DARE)

Perception, Action & Cognition (PAC)

NSF’s Convergence Accelerator
## EDU Invests $170M+ in 151+ Awards, Across 18+ Programs

<table>
<thead>
<tr>
<th>Division</th>
<th>Programs</th>
<th>Awards</th>
<th>Investment to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>EES</td>
<td>ADVANCE, AGEP, CREST, ECR, HBCU-UP, NSF INCLUDES, WEPD</td>
<td>21</td>
<td>$22M</td>
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<tr>
<td>DGE</td>
<td>CyberCore:SFS, ECR, NRT</td>
<td>16</td>
<td>$39.5M</td>
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<tr>
<td>DRL</td>
<td>AISL, CS for All, DRK-12, ECR, ITEST, STEM+C</td>
<td>72</td>
<td>$65.5M</td>
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<tr>
<td>DUE</td>
<td>ATE, ECR, FW-HTF, IUSE, Noyce, S-STEM</td>
<td>43</td>
<td>$43.5M</td>
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</tbody>
</table>
Most Recent Agency-Wide and EDU Funding Opportunities

• Dear Colleague Letter: STEM Access for Persons with Disabilities (NSF 23-160)

• Dear Colleague Letter: Research to Improve STEM Teaching, Learning, and Workforce Development for Persons with Disabilities (NSF 21-114)

• Dear Colleague Letter: Persons with Disabilities – STEM Engagement and Access (NSF 21-110)

• Workplace Equity for Persons with Disabilities in STEM and STEM Education (NSF 23-593)
Dear Colleague Letter: STEM Access for Persons with Disabilities (NSF 23-160)

Supports researchers and trainees with disabilities.
- High school, undergraduate and graduate students; research participants; postdoctoral research scholars; K-12 teachers, staff and faculty with disabilities

Especially interested in submissions that provide creative and innovative solutions that act as multipliers of existing accommodations to enhance access to and participation in STEM
Dear Colleague Letter: STEM Access for Persons with Disabilities (NSF 23-160)

**Conference Proposals:** Inclusive of indirect costs, must not exceed $100K.

**Supplemental Proposals:** As described in the PAPPG. Requests must be submitted at least two months before funds are needed and may not exceed $100K.
Dear Colleague Letter: Research to Improve STEM Teaching, Learning, and Workforce Development for Persons with Disabilities (NSF 21-114)

August 25, 2021

Dear Colleagues:

The National Science Foundation’s (NSF’s) Directorate for Education and Human Resources (EHR) wishes to notify the community of its intention to support fundamental and applied research on science, technology, engineering, and mathematics (STEM) teaching, learning, and workforce development for persons with disabilities, as defined by the Individuals with Disabilities Education Act (Sec. 300.8). NSF intends to support fundamental and applied research and the development of innovative STEM teaching and learning approaches to be implemented for persons with disabilities from the earliest developmental stages of life through participation in the workforce. This notification identifies opportunities for such research and development through the following programs:
Dear Colleague Letter: Research to Improve STEM Teaching, Learning, and Workforce Development for Persons with Disabilities (NSF 21-114)

August 5, 2021

Dear Colleagues:

With this Dear Colleague Letter, the National Science Foundation’s (NSF) Directorate for Education and Human Resources (EHR), with leadership from the Division of Human Resource Development (HRD), seeks to increase the engagement of persons with disabilities in Science, Technology, Engineering, and Mathematics (STEM) fields and STEM education. Educating, preparing, and supporting persons with all types of disabilities, and of all ages, improves the skills of our nation’s current and future STEM workforce, as well as improves the prospects for all Americans to learn, work, and contribute to U.S. leadership in science and engineering discovery and innovation. A wide range of disability types are recognized in this Dear Colleague Letter including, but not limited to, deafness or hearing loss; blindness or visual impairment; physical, mental health, medical or other health-related disabilities; and neurodiverse conditions such as dyslexia, autism spectrum disorders, and learning disabilities.

This Dear Colleague Letter particularly encourages submission of new proposals, or requests for supplemental
Workplace Equity for Persons with Disabilities in STEM and STEM Education

PROGRAM SOLICITATION
NSF 23-593

National Science Foundation

Directorate for STEM Education
   Division of Equity for Excellence in STEM
   Division of Graduate Education
   Division of Undergraduate Education
   Research on Learning in Formal and Informal Settings

Directorate for Biological Sciences

Directorate for Computer and Information Science and Engineering

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical and Physical Sciences

Directorate for Social, Behavioral and Economic Sciences

Directorate for Technology, Innovation and Partnerships

Office of Integrative Activities

Office of International Science and Engineering
Workplace Equity for Persons with Disabilities in STEM and STEM Education

Supporting fundamental, applied, and translational research that advances knowledge about diverse, equitable, inclusive, and accessible STEM and STEM education workplaces and postsecondary training environments for persons with disabilities.
Research Themes

• Studying barriers and/or solutions to diversity, equity, inclusion and accessibility (DEIA).
• Applying intersectional social identity perspectives to investigate characteristics and conditions that limit and/or improve DEIA.
• Conducting use-inspired and solution-oriented translational research about DEIA.
Key Project Design Considerations

- Authentic Disability Experience
- Disability Type(s)
- Workplace Settings
- Research Design
- Evaluation
- Dissemination

Design Elements
## Award Details

<table>
<thead>
<tr>
<th>Proposal Type</th>
<th>Budget Maximum</th>
<th>Duration</th>
<th>Due/Target Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Proposals</td>
<td>Up to $1,500,000</td>
<td>Up to 5 years</td>
<td>September 19, 2023</td>
</tr>
<tr>
<td>Synthesis Projects</td>
<td>Up to $600,000</td>
<td>Up to 3 years</td>
<td>September 19, 2023</td>
</tr>
<tr>
<td>Conference Proposals</td>
<td>Justified by conference description</td>
<td>Justified by conference description</td>
<td>Accepted with no deadline</td>
</tr>
<tr>
<td>EArly-concept Grants for Exploratory Research (EAGER)*</td>
<td>Up to $300,000</td>
<td>Up to 2 years</td>
<td>Accepted with no deadline</td>
</tr>
<tr>
<td>Rapid Response Research (RAPID)*</td>
<td>Up to $200,000</td>
<td>Up to 1 year</td>
<td>Accepted with no deadline</td>
</tr>
</tbody>
</table>

*An EAGER or RAPID proposal may only be submitted after receipt of an NSF program officer email specifying that a proposal may be submitted.*
Engineering, TIP, and Other Agency Funding Opportunities for and About Persons with Disabilities

**Directorate for Engineering**

The [Disability and Rehabilitation Engineering (DARE) program](#) supports fundamental engineering research to improve the quality of life of persons with disabilities through the development of new technologies, devices, or software that advance knowledge regarding a specific human disability, pathological motion, or injury mechanism.

**Other Rehabilitation Research at NSF**

NSF funding opportunities for research related to rehabilitation: [Rehabilitation Research at NSF](#).

**Directorate for Technology, Innovation and Partnerships**

Convergence Accelerator (NSF [22-583](#)) program offered [Track H](#) “Enhancing Opportunities for Persons with Disabilities.” The track converged a wide range of disciplines to develop user-inspired solutions to enhance quality of life, employment access, and opportunities for persons with disabilities.

**Facilitation Awards for Scientists and Engineers with Disabilities (FASED)**

Created to reduce or remove barriers to participation in research and training, and to encourage the pursuit of careers in STEM. Details are provided in the [PAPPG](#).