

Foundation Name: National Science Foundation (NSF)

Opportunity: Strengthening the Cyberinfrastructure Professionals Ecosystem (SCIPLE)

Website:

<https://www.nsf.gov/funding/opportunities/strengthening-cyberinfrastructure-professionals-ecosystem/506137/nsf23-521/solicitation>

Funding Opportunity Number: NSF 23-521

Submission Limitation per Institution: One (1)

Notre Dame Limited Submissions Listing:

<https://research.nd.edu/our-services/funding-opportunities/faculty/limited-submissions-program/>

Focus: The overarching goal of this solicitation is to democratize access to the National Science Foundation's (NSF's) advanced cyberinfrastructure (CI) ecosystem and ensure fair and equitable access to resources, services, and expertise by strengthening how Cyberinfrastructure Professionals (CIP) function in this ecosystem. It aims to achieve this by (1) deepening the integration of CIPs into the research enterprise, and (2) fostering innovative and scalable education, training, and development of instructional materials, to address emerging needs and unresolved bottlenecks in CIP workforce development. Specifically, this solicitation seeks to nurture, grow and recognize the national CIP [1] workforce that is essential for *creating, utilizing and supporting* advanced CI to enable and potentially transform fundamental science and engineering (S&E) research and education and contribute to the Nation's overall economic competitiveness and security. Together, the principal investigators (PIs), technology platforms, tools, and expert CIP workforce supported by this solicitation operate as an interdependent ecosystem wherein S&E research and education thrive. This solicitation will **support NSF's advanced CI ecosystem with a scalable, agile, diverse, and sustainable network of CIPs that can ensure *broad adoption* of advanced CI resources and expert services including platforms, tools, methods, software, data, and networks for research communities, to catalyze major research advances, and to enhance researchers' abilities to lead the development of new CI.**

All projects are expected to clearly articulate how they address essential community needs, will provide resources that will be widely available to and usable by the research community, and will broaden participation from underrepresented groups. **Prospective PIs are *strongly encouraged* to contact the Cognizant Program Officers in CISE/OAC and in the participating directorate/division relevant to the proposal to ascertain whether the focus and budget of their proposed activities are appropriate for this solicitation.** Such consultations should be completed at least one month before the submission deadline. PIs should include the names of the Cognizant Program Officers consulted in a Single Copy Document as described in Section V.A. Proposal Preparation Instructions. The intent of the SCIPLE program is to encourage collaboration between CI and S&E domain disciplines. (For this

purpose, units of CISE other than OAC are considered domain disciplines.) To ensure relevance to community needs and to facilitate adoption, those proposals of interest to one or more domain divisions **must** include at least one PI/co-PI with expertise relevant to the targeted research discipline. All proposals shall include at least one PI/co-PI with expertise pertinent to OAC.

Required Internal Application Materials: Upload the documents to the Google Form at <https://forms.gle/QjjXrDLnnKLp8R3u8> by the internal deadline.

- Name of Principal Investigator (PI)
- Project Title
- ND Collaborators
 - o For each ND Collaborator listed, include name, department or unit, and specific role for this project in three sentences (maximum).
- Project Summary: A four-page project summary (maximum) based on the [NOFO Merit Review Principles and Criteria](#) outlined:
 - o Merit Review Criteria
 - Criterion One: Intellectual Merit
 - Criterion Two: Broader Impacts
 - o Address the two (2) additional Solicitation Specific Review Criteria
 - Describe the broadening adoption of Advanced Cyberinfrastructure (CI) and associated methods, including their relevance to the proposed work.
 - Define the key barriers to recognizing and democratizing the workforce development for Cyberinfrastructure Professionals (CIP).

Internal Interest Deadline: 2025-09-18

Sponsor Full Proposal Deadline: 2026-01-15

Questions? Contact Notre Dame Research Limited Submissions at limited@nd.edu.

Unless otherwise noted, all internal applications are due by 11:59 PM Eastern Daylight Time on the internal expression of interest deadline.

Applications submitted after the deadline will not be accepted.