

Foundation Name: National Science Foundation (NSF) -- Integrated Data Systems & Services (IDSS)

External Link:

<https://www.nsf.gov/funding/opportunities/idss-integrated-data-systems-services/nsf25-544/solicitation>

Funding Opportunity Number: NSF 25-544

Submission Limitation per Institution: Total of two (2) submissions allowed: one (1) submission per Category I and one (1) submission per Category II. Category III has no limitations and is exempt from the Notre Dame Research Limited Submission process.

Notre Dame Limited Submissions Listing:

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

Focus: The Integrated Data Systems and Services (IDSS) program supports operations-level national-scale cyberinfrastructure systems and services that broadly advance and facilitate open, data-intensive and artificial intelligence-driven science and engineering research, innovation, and education.

Through this solicitation, the IDSS program is accepting proposals for three categories of projects:

- **Category I (Limited Submission)** - Development, deployment, and operation of novel national-scale integrated data systems and services, which may include interfacing with or leveraging other existing capabilities, systems and services, as appropriate to the project;
- **Category II (Limited Submission)** - Transition of established smaller scale, regional, pilot, or prototype data-focused systems and services to national-scale production/operational quality/level. This may also include enhancement and expansion of existing national-scale data-focused operational systems and services; and

Programmatic areas of interest: Current areas of particular interest to the IDSS program include, but are not limited to and may involve a combination of:

- Projects that facilitate the connection of data sources with advanced computing resources and analytic environments in integrative ways for an appropriately broad array of use cases.
- Projects that address the emerging data-intensive workflows and data integration needs of artificial-intelligence (AI)-driven research (including research about AI and research using AI capabilities).
- Projects that focus on enabling one or more specific points in the data lifecycle applied at a national scale.

Projects that enhance the ability of the research and education community to access and utilize open research data supported by other federal agencies are welcome, provided that such projects are not primarily benefitting a single science discipline, domain, project, or application, and are complementary to, not overlapping with investments being made by those other agencies for similar purposes.

Required Internal Application Materials: Upload the documents to the Google Form at <https://forms.gle/jH6SgzBQ1Rauba8N8> by the internal deadline.

- Name of Principal Investigator (PI)
- Project Title
- ND Collaborators: For each ND Collaborator listed, include name, department or unit, and specific role for this project in three sentences (maximum).
- Specify the category you are applying for: Category I or II.
- Project Summary: A four-page project summary (maximum) based on the [NOFO Merit Review Principles and Criteria](#) outlined:
 - Merit Review Criteria
 - Criterion One: Intellectual Merit
 - Criterion Two: Broader Impacts
 - Address the two (2) additional Solicitation Specific Review Criteria
 - Provide convincing evidence that the project is needed, relative to other existing systems and services, to advance integrative data-intensive and AI-driven science and engineering research and education, in integrative ways for an appropriately broad array of use cases.
 - Provide a clear definition of the proposed systems and services and provide the technical specifications at an appropriate level of detail.

Internal Interest Deadline: 2025-09-16

Sponsor Full Proposal Deadline: 2025-12-04

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.