

Midwest Big Data Innovation Hub

Collaboration Cafe

July 2022



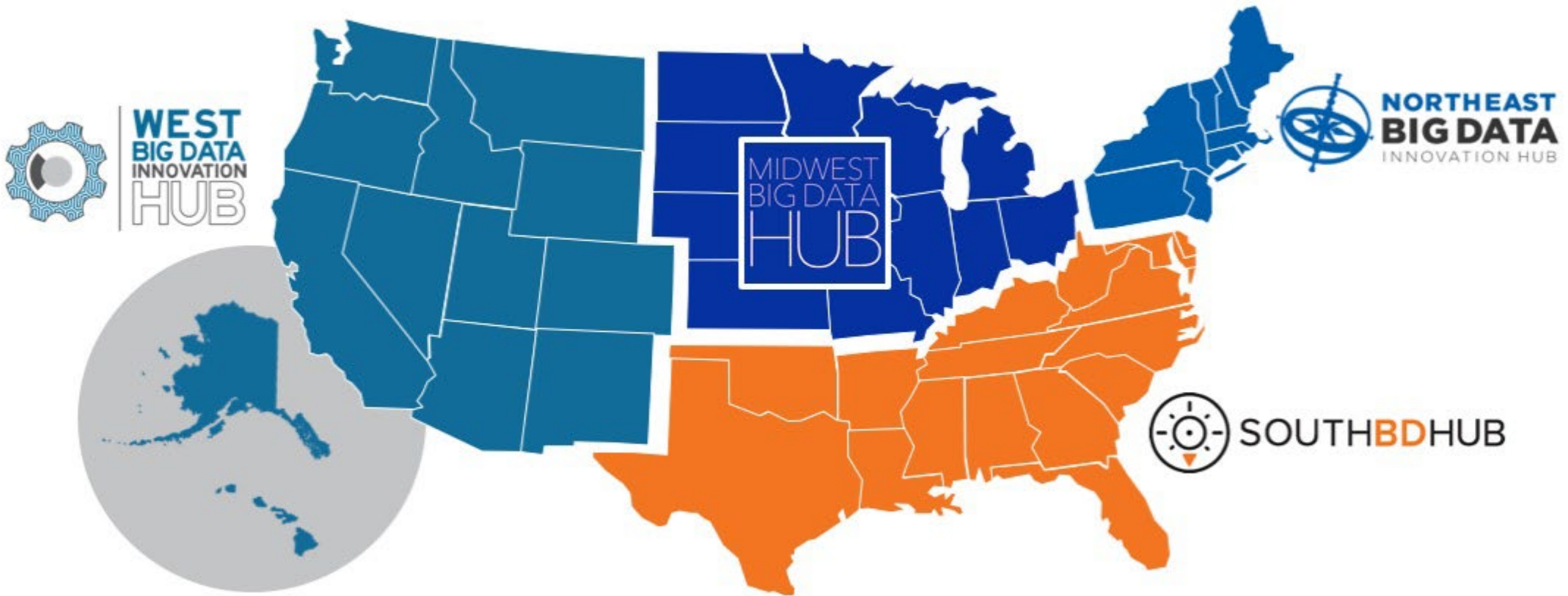
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Four Hubs, One Mission



What We Do

Engage communities, share resources, and build partnerships that harness data science to address societal and scientific challenges.



Priority Areas and Cross-cutting Themes

- Advanced Materials and Manufacturing
- Big Data in Health
- Digital Agriculture
- Smart & Resilient Communities
- Water Quality
- Data Science Education and Workforce Development
- Cyberinfrastructure and Data Sharing

Collaboration Cafe webinar series

Goals:

- Building regional capacity for large-scale proposal response
- Growing a cross-disciplinary network of data science collaborators
- Elevating early career researchers
- Creating a more diverse data science community by actively engaging with non-R1 institutions, including minority-serving institutions (MSIs), tribal colleges and universities (TCUs), and predominantly undergraduate institutions (PUIs)
- Partnering with industry, government, nonprofits, and civic organizations to support translational research and transition-to-practice activities

Regular segments:

- Funding opportunity walkthroughs
- Lessons learned from prior awardees
- Researcher lightning talks
- Speed networking
- Small group discussions

Collaboration Cafe resources

- [MBDH website](#)
 - Web page with upcoming sessions
 - Short form for engagement
- [Slack community](#)
 - Networking
 - Input on future sessions
 - New solicitations
- [Shared Google Drive](#)
 - Running notes doc
 - Relevant prior awards to Midwest institutions
- [YouTube playlist](#) of webinar recordings

Cafe Ground Rules

- Multi-disciplinary team science is a core focus here - all proposal ideas are welcome for discussion
- Research proposals are competitive; some people may not be willing to discuss the details of their projects in this venue
- Private conversations in breakout rooms or Slack private messages are private
- Participating in Collaboration Cafe activities falls under our [NSF Code of Conduct](#)

MBDH engagement on proposals

There are multiple opportunities to have MBDH participate on proposals for this program, or other projects:

- Engagement partner: Communications, outreach, community assessments, participation in Hub events and activities
 - Non-exclusive Letter of Collaboration
 - Minimal to no funding to MBDH
- Collaborative partner: Engagement roles + involvement in developing and managing project activities
 - Non-exclusive Letter of Collaboration, subaward, co-PI roles, etc.
 - Funding to recover costs of MBDH staff time and other expenses
- **Note:** The MBDH is a neutral party and often provides non-exclusive Letters of Collaboration to multiple proposers to a solicitation

July Solicitation: NSF SaTC program

Secure and Trustworthy Cyberspace



NSF 22-517	Proposals due: anytime (rolling submissions) [Program overview]
Program goals	<ul style="list-style-type: none"> “To protect and preserve the growing social and economic benefits of cyber systems while ensuring security and privacy.”
Size and duration (max)	<ul style="list-style-type: none"> EDU: Up to \$400k over 36 months (\$500k if a collab between a cybersecurity SME and an education researcher) Small CORE and TTP: Up to \$600k over 36 months Medium CORE and TTP: Up to \$1.2M over 48 months <i>No Large proposals in FY22 or FY23</i>
Number of awards (est)	<ul style="list-style-type: none"> Approx. 90 each year (15 EDU, 45 Small, 30 Medium)
LOI/preproposal?	No, but consider contacting a Program Officer to discuss the expectations of the CISE Division most aligned with your research
Eligibility limits & other guidance	<ul style="list-style-type: none"> Can participate as PI, co-PI or Sr. Personnel on up to 4 proposals per NSF fiscal year (Oct 1 – Sep 30) Limit of two CORE, one TTP, on EDU per year Open to IHEs and non-profit, non-academic institutions



NSF SaTC proposal guidance (from the solicitation)

- NSF SaTC [general FAQ](#) (prior year)
- NSF SaTC [TTP FAQ](#) (prior year)
- “[C]ybersecurity involves hardware, software, networks, data, people, and integration with the physical world.”
- Alignment with the Federal Cybersecurity Research and Development Strategic Plan ([RDSP](#)) six areas critical to successful cybersecurity research and development:
 1. scientific foundations;
 2. risk management;
 3. human aspects;
 4. transitioning successful research into practice;
 5. workforce development; and
 6. enhancing the research infrastructure.
- Alignment with National Privacy Research Strategy ([NPRS](#))

NSF SaTC proposal guidance (from the solicitation)

- SaTC spans NSF's CISE, ENG, MPS, SBE, and EHR Directorates
- Proposals that address “cybersecurity and privacy, drawing on expertise in one or more of these areas: computing, communication, and information sciences; engineering; education; mathematics; statistics; and social, behavioral, and economic sciences. Proposals that advance the field of cybersecurity and privacy within a single discipline or interdisciplinary efforts that span multiple disciplines are both welcome.”

Proposal types:

- CORE: main focus of the multidisciplinary SaTC research program
- EDU: proposals focusing on cybersecurity and privacy education and training
- Transition to Practice (TTP): proposals that are focused exclusively on transitioning existing research results to practice

Project sizes:

- Small
- Medium – helpful guidance in the solicitation about what a successful proposal looks like
- “PIs are encouraged to consider utilizing NSF-supported research infrastructure (such as the Platforms for Advanced Wireless Research, FABRIC, Chameleon, CloudLab, and CISE Community Research Infrastructure projects)”

NSF SaTC proposal elements

- Standard elements (Project Summary, Project Description, Budget, etc.)
 - “Proposals must have clear and specific plans for assessment and evaluation”
 - “All EDU proposals must include a dissemination strategy that is tied to broader impact goals and a clear plan to report on the project and its successes and lessons learned to appropriate audiences.”
 - Budget for SaTC community PI meetings (every other year)
- Supplementary Documents
 - Data Management Plan
 - List of Project Personnel and Partner Institutions
 - Collaboration Plan (required for Medium projects with more than one PI, but optional for Small and EDU proposals)
 - Broadening Participation in Computing (BPC) plans are required for Medium proposals at time of submission (was previously only at time of award), if the lead or non-lead organizations are in CISE research areas
- See the helpful Submission Checklist in the solicitation for more details

NSF SaTC review guidance (from the solicitation)

- Standard NSF “Merit Review Principles and Criteria” section
 - “Intellectual Merit”
 - “Broader Impacts”
- Additional Review Criteria for SaTC proposals
 - For all *Medium* proposals: does the Broadening Participation in Computing (BPC) plan meaningfully address the five elements of a BPC Plan: (1) the context of the proposed activity, (2) intended population(s), (3) strategy, (4) preparation, and (5) measurement?
 - For *multi-investigator Medium* proposals: details on project scope and collaboration in relation to requested budget, and allocation of adequate personnel time
 - For *TTP* proposals: 7 criteria on a variety of aspects, including project plan specificity, targeted users, deployment plan, project team skill sets, etc.

Discussion

- Prior experiences with SaTC proposals?
 - What would you do differently (or the same)?
 - What should new proposers be aware of?
 - What was most challenging for you?
 - How has your award influenced your research and collaborations?
- Other questions and discussion
 - What cybersecurity research gaps and opportunities exist in the Midwest that collaborators could partner to address?

Get involved

- <https://midwestbigdatahub.org/cafe>
- info@midwestbigdatahub.org

August 18, 2022

3:00–4:00 p.m. CT / 4:00–5:00 p.m. ET

- Topic: Building Open-Source Ecosystems
- Solicitation: NSF Pathways to Open Source Ecosystems (POSE) Phase II

September 22, 2022

3:00–4:00 p.m. CT / 4:00–5:00 p.m. ET

- Topic: Midwest Workshop on Data for Healthy, Resilient Communities
- Solicitation: NIH general workshop proposal



Get Involved ▾

MBDH Collaboration Cafe

Community Development and Engagement Program

Community Advisory Panel

Midwest Carpentries Community

Data Science Student Community

Regional Activities

Event in a Box Tool Kit

Explore Funding Opportunities

Join a Working Group