

Midwest Big Data Innovation Hub

Collaboration Cafe

June 2022



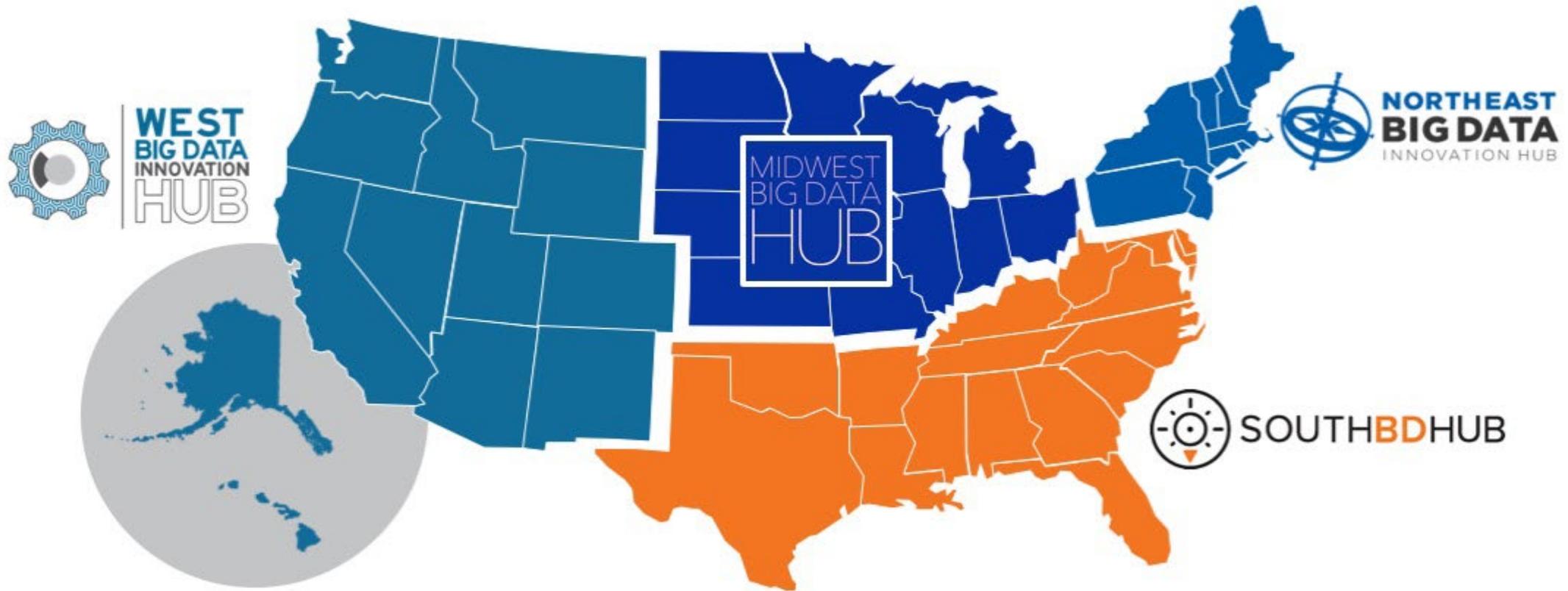
IOWA STATE
UNIVERSITY



supported by NSF [1916613](#)



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

June Solicitation: NSF CRII program

CISE Research Initiation Initiative



NSF 22-598	Proposals due: September 19, 2022	[Program overview]
Program goals	<ul style="list-style-type: none"> “Support research independence among early-career academicians who specifically lack access to adequate organizational or other resources.” 	
Size and duration (max)	<ul style="list-style-type: none"> Up to \$175k over 24 months 	
Number of awards (est)	<ul style="list-style-type: none"> 55-60 each cycle 	
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"> PI must be an untenured faculty member or research scientist (or equivalent) in their first three years in a primary academic position after the PhD, but not more than six years after completion of their PhD Must not have received any prior grants or contracts in the PI role from any department, agency, or institution of the federal government, including from the NSF CAREER program or any other program, post-PhD Must be affiliated with a non-R1 or non-profit, non-academic institution Only 1 proposal per cycle Only 1 PI; no co-PIs 	



NSF CRII program guidance

- Official NSF [program webinar](#): July 13, 2022, 1:00pm CT / 2:00pm ET
- NSF [CRII FAQ](#)
- “This solicitation provides the opportunity for early-career researchers who do not have adequate organizational or other means of support to pursue their early-career research, including to recruit and mentor their first graduate students (or undergraduate students, in the case of faculty at undergraduate and two-year institutions), which is one critical step in a career pathway that is expected to lead to research independence and a subsequent stream of projects, discoveries, students and publications.”
- “CRII awards will be given to researchers to undertake exploratory investigations, to acquire and test preliminary data, develop collaborations within or across research disciplines, and/or develop new algorithms, approaches, and system designs / prototypes, which together or separately may lead to improved capacity to write successful proposals submitted to other programs in the future.”

NSF CRII proposal elements

- Standard elements (Project Summary, Project Description, Budget, etc.)
- Data Management Plan
- Supplementary Documents
 - The proposer's department head or supervisor will provide a letter about the eligibility of the PI. (Template linked from solicitation)
 - Cloud computing resources request
 - RUI Certification and RUI Impact Statement (if applicable)
- See the helpful Submission Checklist in the solicitation for details

NSF CRII proposal guidance (from the solicitation)

- Proposers may allocate part of their budgets for CloudBank cloud credits for necessary computing resources
 - Note: this is not additional funding beyond the \$175k maximum
- “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) when formulating their research plans and submitting proposals.”

NSF CRII review guidance (from the solicitation)

- Standard NSF “Merit Review Principles and Criteria” section
 - “Intellectual Merit”
 - “Broader Impacts”
- Additional Review Criteria for CRII proposals
 - “the potential of the research initiation activities to produce sufficient preliminary results to serve as the basis for future competitive research proposals; and
 - whether the activities are seen to be the necessary and critical steps for the PI to launch their research career.”

Discussion

- Prior experiences with CRII 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

Get involved

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

July 21, 2022

3:00–4:00 p.m. CT / 4:00–5:00 p.m. ET

- Topic: Cybersecurity & Big Data
- Solicitation: NSF Secure and Trustworthy Cyberspace (SaTC) program

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



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