



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 23 – 25, 2019 | Minneapolis, MN

Quad Chart for: *The Great Plains Regional CyberTeam*

Challenge:

Supporting computational and data-intensive research at under-resourced institutions in rural states is challenging.

Rural states have:

- Sparse populations
- Fewer trained CI staff
- Smaller research output
- Less participation in national CI community.

Broader Impact:

- Drives CI development and adoption in EPSCoR States
- Enables advancements on campuses currently underserved by advanced CI
- Develops and disseminates CI best practices for an effective CyberTeam



Approach:

- Bring CI expertise directly to rural campuses.
- Cross-institutional distributed support team with 4 key foci:
 - **Networking**
 - **System Administration**
 - **Security**
 - **Researcher Training and Outreach**
- Leverages existing collaboration model of regional networks
- Pairs regional mentors with mentees and students
- Onsite campus engagement focused on enabling specific science workflows



Scientific Impact

Pilot site visit at University of
South Dakota 10/9-10/11

Engagements with central IT,
research computing group, and
researchers themselves

Neuroscience and Advanced
Materials labs

First big use of GPUs

First use of containerization

