



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 23 – 25, 2019 | Minneapolis, MN

NSF Program (either CC or CICI): Campus Cyberinfrastructure

Program Area:

Award Number: 1827050

PI: Leslie Margolis

co-PIs: Vitaly Ford

**Project Title: CC* Network Design: Transforming Arcadia's
Networking Capability, Enhancing for Innovation to Grow
Research Leaders in a Technology-driven World**



Leslie Margolis

Interim CIO

Arcadia University

margolisl@arcadia.edu



Vitaly Ford

Assistant Professor

Arcadia University

fordv@arcadia.edu



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Quad Chart for:

CC* Network Design: Transforming Arcadia's Networking Capability, Enhancing for Innovation to Grow Research Leaders in a Technology-driven World

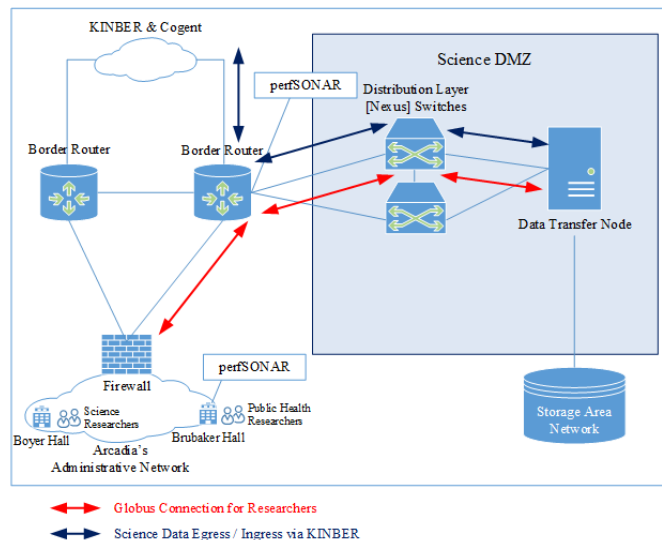
Challenge Project Seeks to Address: *building frictionless network*

- Provide high performance, secure Science DMZ network capabilities
- Eliminate technical barriers for faculty engaged in data-intensive projects
- Leverage InCommon Federation authentication and authorization mechanisms to support our faculty

Solution(s) or Deliverables:

Science DMZ

- Upgrade ISP, connect to KINBER
- Upgrade backbone hardware
- Create a frictionless Science DMZ with a Data Transfer Node



Scientific Impact or Broader Impact: *Leveraging Cyberinfrastructure*

- Researchers across all disciplines that involve data transfer and analysis in the cloud
- Educators who utilize cloud in their teaching
- Opportunities for students' data science research and e-sports activities

Metadata tag:

- *Faculty and IT staff training*
- *Student engagement*
- *Science DMZ deployment phase*