



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

October 3-4 | Albuquerque, New Mexico

NSF Program: CC*

Program Area: CC-NDISI

Award Number: 1660241

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Project Title: *Advanced Research Computing in the Humanities
Engineering and Sciences Network at the University of New Orleans*



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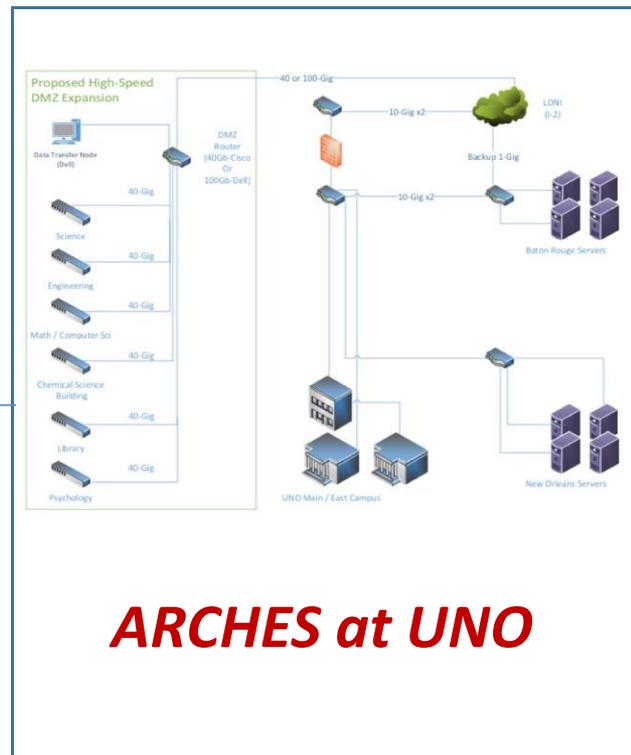
Quad Chart for: Advanced Research Computing in the Humanities Engineering and Sciences Network at the University of New Orleans

Challenge

- UNO serves as model university with significant research capacity in Data enabled science and engineering
- Lack of investments in CI were a significant barrier to continuing the trajectory of success in research drivers in science, and engineering
- Enterprise IT was not cognizant of the needs of researchers

Deliverables:

- Enhanced data-transfer rates using campus-wide DMZ that connects UNO to Internet2 via LONI
- Courses in scientific computing and CI-professional preparatory workshops
- Adopting network standards
- Develop a multi-state model for collaborations between institutions of low and high CI adoption via Regional networks



Broader Impact:

- Promoting multi-institutional research collaborations for science drivers
- Develop classes for undergraduate and graduate students at the most diverse university in Louisiana
- K-12 outreach activities for teachers and students
- Include research IT in Enterprise IT decision making and planning

Team:

- *University of New Orleans*
- *Louisiana Optical Network Initiative*
- *Texas A&M University*

Student Engagement:

- *Research network implementation*
- *CI professional training workshops*
- *REU projects for undergraduates in science drivers and network implementation*