



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 24 – 26, 2018 | University of Maryland, College Park, MD

NSF Program (either CC or CICI): CC

Program Area: Campus
Cyberinfrastructure

Award Number: 1826915

PI: Sharon Blanton, PhD

co-PIs: Jeffrey Osborn, PhD

Project Title: CC* Networking Infrastructure: Building a Friction-free High-speed Science Network and DMZ to Support Data-intensive Research and Education at The College of New Jersey



Sharon E. Blanton
Vice President and CIO
The College of New Jersey
blantons@tcnj.edu



Jeffrey Osborn
Dean, School of Science
The College of New Jersey
josborn@tcnj.edu



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 24 – 26, 2018 | University of Maryland, College Park, MD

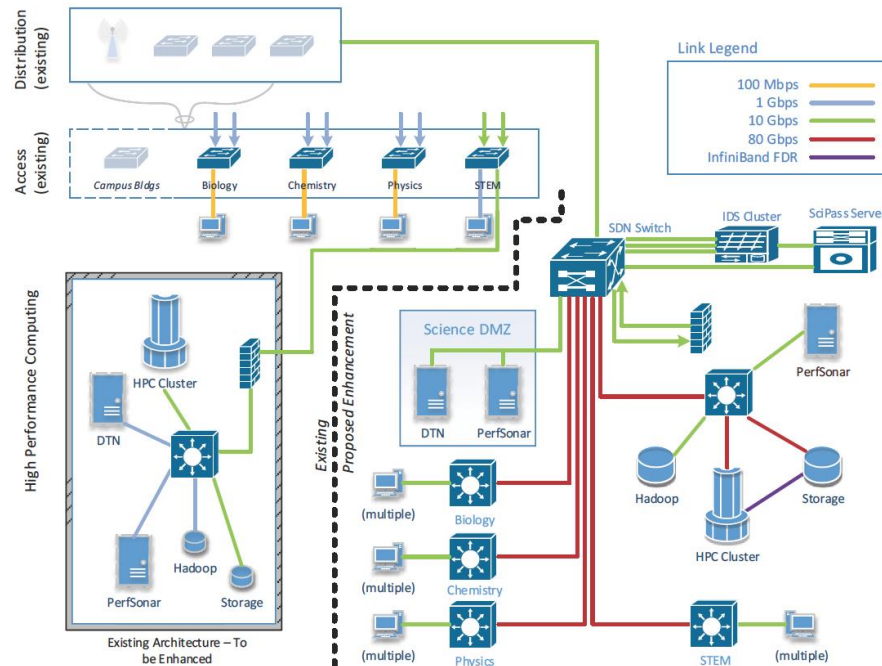
Quad Chart for: CC* Networking Infrastructure: Building a Friction-free High-speed Science Network and DMZ to Support Data-intensive Research and Education at The College of New Jersey

Challenge:

- Current network creates research bottleneck

Deliverables:

- Expand network capacity and efficiency
- Increase access to labs and classrooms
- Prepare students for HPC workforce
- Create high speed science network
- Connect via friction-free science DMZ
- 80GBS connectivity
- Implement perfSONAR
- Expanded collaborations with OpenScience Grid, NJEdge, NJ Big Data Alliance



Scientific Impact:

- Computational Biochemistry
- Computational Astrophysics
- Phylogenomics and Macroevolution
- Interdisciplinary High-resolution Microscopy
- Undergraduate Science Education
- HPC and Scientific Data Visualization Course
- Collaborative HPC research group