



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

October 3-4 | Albuquerque, New Mexico

NSF Program: Campus Cyberinfrastructure (CC*)

Program Area: Networking Infrastructure **Award Number:** 1659421

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Project Title: Expanding STEM Research on Chicago's South Side



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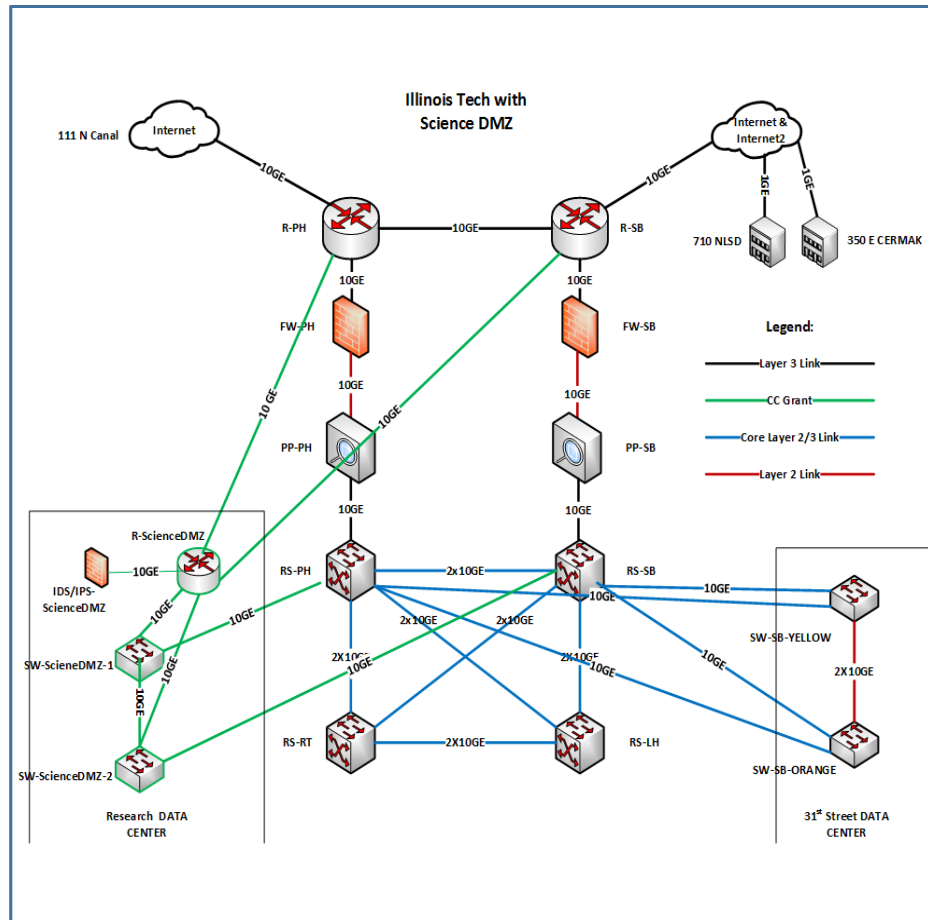
Quad Chart for: *Expanding STEM Research on Chicago's South Side*

Challenge:

- Illinois Institute of Technology (IIT) hosts four major research institutes and 25 research centers across four campuses. Such research presents ever-increasing demands on IIT's campus network. IIT currently does not have a Science DMZ that would allow its faculty to collaborate with a broad spectrum of researchers from top universities and other research institutions.

Solution:

- To establish a Science DMZ environment, which would provide a high throughput and a lossless packet infrastructure for the IIT research community.



Broader Impact:

- The Science DMZ will significantly improve IIT's researchers' abilities to collaborate with Tier-1 research organizations in the U.S. and around the world, including the Open Science Grid community.
- The Science DMZ will support the big data research conducted at IIT, such as the urban metropolitan transportation congestion relief project and the whole genome sequencing project that aims to create a global catalog of bacteria-causing food poisoning.
- The Science DMZ's positive impact on IIT's research and collaborations with other renowned researchers will increase opportunities for on-campus, hands-on research, enhance IIT students' STEM education, and allow for students to be directly involved in the actual deployment of the Science DMZ.