Enhancing Networking Expertise Across the Great Plains

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About GPN

• Support research across the Great Plains
• Connect to Internet2 and ESnet
• Professional Development program
• Annual Meeting
• Over 23 university members in 8 states
• Partnerships with Other Organizations in Support of Research & Education
About This Project

- **Purpose:**
  - Build a long-term, scalable and enduring partnership
  - among small, medium and large institutions of higher education and state and regional networks
  - to improve campus network knowledge, expertise and research cyberinfrastructure
  - through a program of outreach, training and engagement.

- Funded by National Science Foundation
  - Award #1440774 to Kansas State University
About This Project

• Partners: State R&E Networks
  • OneNet (OK)
  • MOREnet (MO)
  • REED Network (SD)
  • Network Nebraska
  • KanREN (KS)

• Others Involved
  • University of Oklahoma
  • University of Chicago/GLOBUS
  • ESnet
  • Internet2
Topics

• Security
• Trust Management & InCommon
• IPv6
• Data Transfer Nodes
• Data Movement Tools for Researchers
• Science DMZ
• Software Defined Networking & OpenFlow
• Network Monitoring & PerfSonar
• Advance Layer 2 Services (AL2S)
• Cyberinfrastructure Planning
• Single Sign On & Identity Management
• Disaster Mitigation
• Open Science Grid & Virtual Organizations
• XSEDE & XSEDE Campus Champion Program
• Operating a Campus Fiber Network
• Tools for Researchers (e.g., Software Carpentry)
• Cloud Services
• Campus Research Computing
• Funding for Cyberinfrastructure
• Communicating with the Campus Research Community
• Participating with EPSCoR in your jurisdiction
• Cyberinfrastructure Planning
Objectives

• Educate/instruct campus personnel on technologies as the need for instruction emerges (i.e., at their own pace).

• Increase implementation of innovative advanced network technologies across the region.

• Increase the number of campuses with Cyberinfrastructure Plans.

• Build a community of support and encouragement for the implementation of new technologies that is quick to respond to the needs of individual members and provides ready access to national R&E network expertise.
Methods

• Assessment
• Online (Adobe Connect) Training
• Professional Development Credit
• Teleconferences
• Help with Implementation
• Hands-On Workshops on Innovative Network Technologies
• Outreach to Campuses
What’s In It For You

• Improve Your Skills
  • Professional Development Hours
• Improve Your Campus Networking
• Become part of a Community of Support
• Engage Researchers Who Need Assistance
• Improve Your Job Prospects
To Get Involved:

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