The Cyber Center
Accelerating discovery and research through cyberinfrastructure

Cyberinfrastructure
Cyberinfrastructure refers to the infrastructure based on distributed information, computing and communication technology. The Cyber Center’s goal is to bring to bear the explosion of information technology-related discoveries and apply them in a focused manner to the processes of discovery and learning.

Partners
* Computer Research Institute (CRI)
* Purdue University Regional Visualization and Analytics Center (PURVAC)
* Network for Computational Nanotechnology (NCN)
* Purdue Climate Change Research Center (PCCRC)
* Chemical and Materials Engineering
* Life Sciences
* Purdue Libraries
* Compact Muon Solenoid Experiment - CMS Tier 2

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Interdisciplinary approach
The Cyber Center is leveraging the expertise of existing groups on campus, the Indiana Center for Database Systems (ICDS), the Rosen Center for Advanced Computing (RCAC), the Purdue Regional Visualization and Analytics Center (PURVAC), the Computer Research Institute (CRI), and the Network for Computational Nanotechnology (NCN) to build tightly coupled teams to address the major areas of cyberinfrastructure within the Cyber Center:
- High-end computing.
- Applications and middleware.
- Networking, security and privacy.
- Visualization, management and provisioning.
- Information analysis and visualization.
- Data modeling and mining.
- Education and engagement.

Mission
The goal of the Cyber Center is to create a center of national preeminence in computational methods for discovery and learning. Cyberinfrastructure is the infrastructure based on distributed computer, information and communication technology.

Vision
Cyber Center’s vision is to create an interdisciplinary facility of national prominence that will:
- Engage in basic cyberinfrastructure research.
- Develop new cyberinfrastructure tools and techniques.
- Deploy results to real communities meeting real user needs at Purdue and beyond.