Research Computing Computational Infrastructure

**Main Research Cluster**
- Head Node with 28 TB of Local Storage
- **46 Compute Nodes**
  - 1,326 CPU cores
  - 9.2 TB of RAM
  - FDR Infiniband Fat Tree Network
  - 64 NVIDIA GPUs

Both HPC clusters share a home directory for both high performance storage and ease of user workflows:
- learning → coding → debugging → testing → production simulations

Accessed through WPI Kerberos authenticated ssh

**Teaching & Development Cluster**
- Head Node with 28 TB of Local Storage
- **3 Interactive Compute Nodes**
  - 96 CPU cores
  - 6 NVIDIA GPUs
- **10 Compute Nodes**
  - 192 CPU cores
  - 14 NVIDIA GPUs
- **3 Big Data Nodes**
  - 44 CPU cores

**Windows Terminal Servers**
- Support Windows only applications for both teaching and research
- Provides high performance computational resources for real time simulation and visualization of results
  - 19 Servers
  - 604 CPUs
  - 8 NVIDIA GPUs
  - 4 TB of RAM

Accessible through Windows RDP

*Big Data Nodes available for data analytics with Apache Spark and Hadoop*