The e-Enterprise Center

The mission of the e-Enterprise Center is to seed, nurture, and execute large-scale research projects that involve applying computing, systems engineering, and information technology principles to address real-world challenges. Due to the pervasive role that information technology plays in modern research efforts, e-Enterprise has developed synergistic activities with all of the other Discovery Park centers as well as academic units and organizations across and beyond the Purdue campus. These activities have developed cyber environments that promote collaborative and integrative team decision making to solve day to day challenges by fusing IT technologies with systems engineering methodologies. Examples include, Purdue Discovery Pipeline, the Purdue Ionomics Information Management System, (PiiMS). In addition, the e-Enterprise Center also develops focused research networks such as the Regenstrief Center for Healthcare Engineering and the Purdue Homeland Security Institute to tackle society’s grand challenges.

Contact Information
The e-Enterprise Center
Mann Hall
203 S. Intramural Drive
West Lafayette, IN 47907-1971
Phone: (765) 494-3153
Fax: (765) 494-4850
E-Mail: e-enterprise@purdue.edu
www.purdue.edu/discoverypark

Research of goal-oriented applications

The e-Enterprise Center is involved in research or application areas where information processing and communication is important to real-world outcomes, where groups of researchers can be brought together who don’t traditionally collaborate, and where the opportunities for scholarly advances and/or additional funding are significant. The following are examples of research areas important to the e-Center:
- Information Generation, Organization, Communication, and Application
- Modeling and Simulation
- Systems Engineering
- Large Dispersed, Heterogeneous Networks

The following are application areas important to the e-Center:
- Healthcare Engineering
- Homeland Security
- Cancer Care Engineering
- Energy Systems Engineering
- Entrepreneurial Systems
- Logistics and Distribution
- Supply Chain Management
- Pharmaceutical Supply Chain Management & New Product Development
- Computational Life Sciences
- Air Traffic Management
- Battlefield Management, Command, and Control

Network of Affiliated Centers and Institutes

The e-Enterprise Center is a Purdue University-wide resource that serves as a networking organization for various faculty and centers on campus that do research on complex systems, three of which are the following:

Regenstrief Center for Healthcare Engineering, RCHE
The Regenstrief Center for Healthcare Engineering improves the efficiency, quality and accessibility of healthcare by tapping into expertise in engineering, science, management and social sciences. It was launched in 2005 with a gift from the Regenstrief Foundation. The e-Enterprise Center, seeded, nurtured, and continues to support RCHE. The center is the only integrated university-wide effort in healthcare engineering in the nation.

Purdue Homeland Security Institute, PHSI
PHSI was formed during August of 2002. The mission of the Institute is threefold. First, fulfill educational and training needs of Homeland Security professionals. Second, accelerate the discovery, validation, and implementation of new knowledge and tools for sustainable homeland security. Lastly, engage with key stakeholders in meeting the challenges associated with Homeland Security.

Purdue Regional Visualization and Analytics Center, PURVAC
PURVAC was started in 2006. PURVAC is developing a visual analytic environment for the communication of information and insight from massive, disparate, incomplete, and time-evolving homeland security data sets. PURVAC is a truly multi-disciplinary and multi-institutional collaboration. Purdue faculty from Electrical and Computer Engineering, Computer Science, Statistics, and the Krannert School of Management as well as the Indiana University School of Medicine are co-investigators. e-Enterprise and the Cyber Center are both supporting PURVAC.