



The e-Enterprise Center

The e-Enterprise Center (e-Center) engages in research in the goal-oriented application of digital technology to business, government and societal problems. It also provides infrastructure and an integrated environment for a number of goal-oriented, cyber/computational activities on the Purdue campus, with a special focus on areas where Purdue has, or can develop, national leadership.

The e-Center brings together faculty and students with strengths in modeling, simulation, optimization, database systems, software engineering, information security, communication, management, algorithm engineering, operations research, production systems, decision theory, system analysis, risk management, marketing, and customer service. The e-Center serves to integrate the knowledge in these areas to create methods that will enable an entire process (e.g. supply chain, manufacturing system, new product development pipeline, customer service, transportation network, distributed information system, product life-cycle, infrastructure) to be rapidly modeled, analyzed, and made more efficient and secure.

Contact Information

e-Enterprise Center
Purdue University
1201 West State Street
West Lafayette, IN 47907-2057
Phone: (765) 494-3153
E-mail: e-enterprise@purdue.edu

www.purdue.edu/discoverypark



e-Enterprise Center

*Advancing multidisciplinary
research through the
application of information
technology*



e-Enterprise Services

■ Seed Grant Program

Like Discovery Park as a whole, the purpose of the seed grant program is to encourage interdisciplinary collaboration on problems of significant societal interest. The funding provides some of the resources needed to form new interdisciplinary relationships. The seed grant program also functions as a venture fund by utilizing resources to make teams competitive for larger scale external funding.

■ Proposal & Project Support

The e-Enterprise Center provides significant support in the proposal creation process for large, multidisciplinary project opportunities. e-Enterprise acts as the proposal creation administrator and coordinator. As a result, the principal investigators for a proposal are able to concentrate on creating the technical and scholarly content of the proposal that is unique to the project. For funded super projects, the e-Enterprise Center will provide startup project management support for the initial six to twelve months.

■ Technical Infrastructure

A fundamental charter of the e-Center is to foster and fully support interdisciplinary collaboration among researchers and affiliates. Features include both synchronous and asynchronous collaboration tools. Capabilities include a fully flexible technical infrastructure and team to support application experimentation and development.

■ Research and Application Areas

The e-Center will become 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
- Knowledge Generation
- Human Behavior

The following are application areas important to the e-Center:

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| □ Advanced Manufacturing | □ Homeland Security |
| □ Logistics and Distribution | □ Air Traffic Management, Flow Control, and Improving Air Transportation Systems |
| □ Supply Chain Management | □ Battlefield Management, Command, and Control |
| □ Pharmaceutical Supply Chain Management and New Product Development | □ Collaborative Research |
| □ Advanced Life Support Systems | □ The Use of Digital Technology to Promote Distributed Human Communities |
| □ Computational Life Sciences | |
| □ Nanotechnology Computation | |
| □ Educational Infrastructure | |
| □ Distributed Product Design | |

■ Annual Conference

The e-Center sponsors an annual conference for Purdue external partners, faculty, and staff designed to provide a campus wide survey of research in support of enterprise improvement and evolution.

■ Network of Affiliate Centers and Institutes

The e-Enterprise Center is a Purdue University-wide resource that serves as an umbrella organization for various faculty and centers on campus that do research on complex systems, especially those that involve people. Below is a list of current affiliates.

- Biometrics Testing & Evaluation Lab
- Center for Collaborative Manufacturing (CCM)
- Center for Customer Driven Quality (CCDQ)
- Center for e-Business Education and Research (CEER)
- Center for Education and Research in Information Assurance and Security (CERIAS)
- Center for Information Systems in Engineering (CISE)
- Computer Integrated Process Operations Consortium (CIPAC)
- Center for Technology Roadmapping (CTR)
- Computing Research Institute (CRI)
- Dauch Center for the Management of Manufacturing Enterprises (DCMME)
- Digital Enterprise Center (DEC)
- Indiana Center for Database Systems (ICDS)
- Information Technology at Purdue (ITaP)
- Laboratory for Extended Enterprises at Purdue (LEEAP)
- Purdue e-Business Research Center (PERC)
- Purdue International Center for Entertainment Technology (PICET)

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