

CENTER FOR e-DESIGN DIRECTORS

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Overview

The Center for *e-Design* and Realization of Engineered Products and Systems is a joint research coalition comprised of five universities working closely with numerous businesses and government organizations. The coalition was established to create new design paradigms and electronic design tools that will assist in generating high quality products and systems at a reduced cost while also reducing the time associated with designing complex engineered products and systems. The research efforts of the Center for *e-Design* support the basic premise that information is the lifeblood of an enterprise and that collaboration is what seamlessly integrates.

Mission

The mission of the Center for *e-Design* is to serve as a nucleus of excellence for the creation and dissemination of a systematic body of knowledge in intelligent *e-design* and product realization.

Objectives

- To serve as a revolutionary integration environment to research, develop, and test technologies that enable the evolution of collaborative service-oriented design paradigm with capability for interoperability, trust-support infrastructure, systems engineering approach to design, proactiveness of analysis, virtual prototyping, lean product data management, multidisciplinary constraints & preferences capturing, and instant distributed access & visualization
- To provide a testbed to benchmark, verify, and validate the performance of vendors' software intended to function within an *e-Design* environment with specified parameters for interoperability and collaboration
- To nurture and cultivate a new breed of engineers, scientists, technologists and business leaders in *e-Design* products and systems through a closely dovetailed university/industry collaboration

Benefits of Membership

- Leveraged investment in strategic research area for competitive advantage.
- Lower in-house R&D costs through utilization of R&D efforts of the Center.
- Access to research being conducted by 5 state-of-the-art universities.
- Access to information and technology on rapid advances occurring in product/system production.
- Directly influence the research priorities of the Center.
- Integrated state-of-the-art web-based product design and realization training.
- First rights and access to developments including patents, licenses, publications.
- Access to expertise: directed research projects, participation in grants from agencies.
- Consultative services.
- Short courses for industry representatives.
- Visitation program between university researchers and industry partners.
- Organizational means through which the private and public sectors can identify and support pertinent research challenges.
- Access to a pool of talented students trained with the Center.

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