

We Can Offer You

- Rich environment optimized for collaboration between industry and academia
- Cutting edge research opportunities focused on critical business partner technology needs
- Leveraged “force multiplier” to accelerate generation of new ideas for product innovation
- One place to go for access to a broad set of world class university expertise
- An expert source for company staff education and training in emerging technologies
- A targeted, low-risk, and cost-effective complement to selected in-house R&D
- Opportunity to establish high-quality, long-term research relationships without hiring



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Net-Centric Software & Systems Consortium

Director's Message

Our consortium focuses on a collaborative approach of research and development in net-centric systems. This allows us to draw on the expertise of industry and academia.

Net-Centric operations offer a computing model for the future. In this paradigm, we no longer view applications as having a fixed set of capabilities: we see them as a set of highly reliable services that are dynamically created from acquired services, then verified and validated in the field in real-time without human intervention.

Our Current Active Participants

- Southern Methodist University (SMU)
- University of North Texas (UNT)
- University of Texas at Arlington (UTA)
- University of Texas at Dallas (UTD)
- Lockheed Martin Aeronautics Company
- Raytheon Company
- Metallett, Inc.
- Rockwell Collins, Inc.
- Tektronix, Inc.
- U.S. Office of Secretary of Defense



*Krishna Kavi,
CSE, UNT*

The Consortium's Expertise

Net-centric systems encompass many areas within computer science and engineering. The consortium includes internationally recognized researchers and more than 250 highly qualified Ph.D. students. The combined expertise of the consortium faculty includes

- Design of high-assurance software for networked and embedded systems
- Adaptive modification within dynamic net-centric software systems
- Verification and validation of complex net-centric software and systems
- Risk-based software assessment and improvement
- Software processes for net-centric systems
- Design and analysis of multi-core and low-power architectures and software systems
- Sensor networks, sensor databases, and information software systems
- Database models based upon metadata and information integration

Consortium members also manage NSA-designated Academic Centers for Excellence in Information Security and Assurance.

"Raytheon has engaged Consortium members to provide technical resources for both internal and development projects, and sees future value in leveraging the capabilities of the Consortium to address technology maturation of on-going and future projects."

Dave Struble, Senior Software Technologist
Raytheon Company

"Net-Centric environments provide a framework for full human and technical connectivity and interoperability that allows users to share information they need, when they need it, in a form they can understand and act on in confidence, and in a manner that protects information from those who should not have it."

Frank Petroski, Chief Engineer
Joint and Defense Wide Systems Division
MITRE Corporation

How to Join Us

A business can join the consortium as an Industrial Member. Each Industrial Member is entitled to a representative on the Consortium Executive Board that decides which projects will be funded from the pooled annual dues. Industrial Members have non-exclusive royalty-free access to research conducted by the consortium. Other licensing agreements are also available.

For further information about the consortium or memberships, please contact Dr. Krishna Kavi, director of the Net-Centric Software & Systems Consortium at kavi@cse.unt.edu or (940) 565-2767, or visit our website at www.netcentric.cse.unt.edu.

"Lockheed Martin Aeronautics Company recognizes that the formation of the North Texas Net-Centric Consortium will serve as a vital step to fueling innovation in net-centric systems and applications development and use of new engineering methods, techniques, and related tools."

John M. Stratton, Director
New Business Funds and CRAD Management
Advanced Development Programs
Lockheed Martin Aeronautics Company

**Cover photograph courtesy of Lockheed Martin Corporation.*