



**UNIVERSITY OF TEXAS AT ARLINGTON
RESEARCH INSTITUTE**

Dr. Mickey McCabe
Executive Director



from insight to innovation



The University of Texas at Arlington Research Institute



UTARI Facilities & Staff

- 48,000 sq ft, state-of-the-art Research Institute
- \$12 million of cutting-edge equipment
- 8 Distinct Laboratories
- Over 50 dedicated research and support staff (includes students and interns)



UTARI Characteristics

- Scientists and engineers focus on only research projects
- Integral part of the University so access to “experts” is easy
- Highly aware of the need to protect company proprietary information
- Flexible and reasonable approach to intellectual property



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Overview of Research Areas

- Biomedical Technologies
- Predictive Performance of Materials/Structures
- Automation and Intelligent Systems
 - Robotics
 - Unmanned Systems
 - Manufacturing Automation

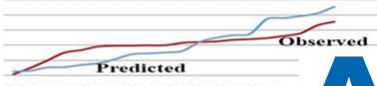


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Institute for Predictive Performance Methodologies



UTARI UNIVERSITY OF TEXAS AT ARLINGTON RESEARCH INSTITUTE



- **Vision:** To reduce the cost of conception, development, and application of engineered materials and structures, and the risk of using them in society
- **Approach:** Predictive performance* based on *operational observables* and *knowledge-based models* to reduce development and maintenance cost, time to market, and risk.

***Performance: Capacity to achieve a desired result.**
Focus: Engineering / heterogeneous / composite materials

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Manufacturing Automation

- Enabling technologies:
 - Flexible manufacturing & automation
 - Holistic manufacturing optimization
 - Additive manufacturing
 - Metals, composites, hybrid
 - Multiscale
- Applications:
 - Low-volume parts & systems, and complex geometries
 - Reducing the cost of manufactured goods
- UTARI Research:
 - Small Motor Manufacturing (Walmart Foundation)
 - High Density Assembly Automation (Lockheed, MFC)
 - Micromanufacturing Innovations (ONR)

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Manufacturing Automation Sponsors and Partners



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THANK YOU!!



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