

ENGINEERING TECHNOLOGY *and* INDUSTRIAL DISTRIBUTION

Enrollment Fall 2009

Undergraduate Students	908	Graduate Students	17
Average SAT Score	1195	Master's (Distance Learning Program)	17

Quality Indicators

Total Faculty	40	Endowed Chair Holders	1
Professors	7	Endowed Professorship Holders	4
Associate Professors	5		
Assistant Professors	16		
Non-tenured/Non-tenure Track	12		

Centers and Laboratories

Center for Telecommunications Technology Management
 Computer-Integrated Manufacturing Laboratory
 DXP Pump Laboratory
 Embedded Systems Laboratory
 Fluid Power Laboratory
 Freescale Digital Systems Laboratory
 Local and Metropolitan Area Networks Laboratory
 Micro and Nano Manufacturing Laboratory
 Mobile Integrated Solutions Laboratory
 Monterrey Global Research Center

Non-Destructive Testing and Evaluation Laboratory
 Radiation Hardness Testing Laboratory
 Radio Frequency Identification in Distribution Laboratory
 R.C. Womack Fluid Power Laboratory
 RFID/Sensor Laboratory
 Rockwell Automation Laboratory
 Supply Chain Systems Laboratory
 Thomas and Joan Read Center for Distribution Research and Education (TEES)
 TI Mixed-Signal Test Laboratory
 Virtual Instrumentation and Measurement Systems Laboratory

Research Areas

Automation

- Automation, Robotics and System Integration
- Engineering Education and Cognition
- Hybrid Imaging and Thermal Profiling for Product/ Process Characterization
- Nanotechnology
- Smart Design Environments for Reconfigurable Manufacturing Systems

Electronics

- Control Systems
- Embedded Computer Systems
- Medical Instrumentation and Robotics
- Product Design and Prototyping
- Radiation Hardness Testing
- Real-Time Software Systems
- RFID/Sensor Integration and Networks
- Semiconductor Manufacturing Equipment Testing
- Semiconductor Device Testing
- Smart Vehicles
- Software Defined Radio
- Software Development
- Virtual Instrumentation

Industrial Distribution

- Competitive Advantage
- Customer Relationship Management
- Distribution Forecasting
- Distributor Profitability
- Distributor Information Management

- Industrial Marketing
- Industrial Sales
- Inventory Management
- Integrated Supply
- Lean Distribution
- Logistics and Transportation
- Manufacturing and Distribution Benchmarking
- Operational Excellence
- Quality
- Strategic and Global Sourcing
- Supplier Relationship Management
- Supply Chain Management
- Value Chain Analysis

Manufacturing Processes and Materials

- Advanced Materials
- Asset Management
- Design and Development of Advanced Materials Processing Technologies
- Distribution Best Practices
- Enterprise Performance Management
- K-12 Outreach
- Materials Joining
- Materials Selection and Economics
- Metallurgical Effects of Manufacturing Processes
- Micro/Nano Manufacturing
- Non-Destructive Testing and Evaluation
- Warehouse Design and Optimization

Manufacturing Systems

- Cost Modeling and Analysis
- Globalization
- Manufacturing Systems Cast Modeling and Analysis
- Manufacturing Systems Optimization
- Optimization Under Partial Information-Sharing

Structural Analysis

- Assessment of In-Situ Structural Systems Using Field Measurements

Telecommunications

- Data Communications
- Equipment Application
- Internet Telephony
- Networking
- Policy and Regulations
- Quality of Service
- Rural Communications and Telemedicine
- Transmission and Switching
- Wireless Communications

Thermal Sciences

- Electrochemistry
- Energy Conservation
- Heat Transfer
- Thermal System Design