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MIDDLE TENNESSEE STATE UNIVERSITY

# Engineering Technology and Industrial Studies



Murfreesboro, Tennessee

## Dynamic Career Options

This department (Engineering Technology and Industrial Studies) offers preparation at both the graduate and undergraduate levels for a variety of exciting careers. Degrees are offered in four areas:

### Engineering Technology

Graduates of the Engineering Technology program are in great demand. They possess a unique combination of technical skills and scientific and engineering knowledge. This enables them to support engineering activities in many industries. Students may concentrate in one of the following areas:

- Computer Engineering Technology
- Electro-Mechanical Engineering Technology
- Mechanical Engineering Technology



*An innovative concept by Ian Campbell for the 2005 solar vehicle*

### Industrial Technology

Industrial Technology is designed to prepare students for professional management positions in high-growth technical fields in government and industry. Concentrations include

- Construction Management Technology
- Industrial Management Technology

### Concrete Industry Management

The nationally renowned program prepares technical managers to fill voids in production, sales, quality control, and project management within the concrete industry. Students have many opportunities to interact with practicing professionals and the program boasts exceptional job placement. Two specialties exist: production, sales and service and concrete contracting.

### Environmental Science and Technology

Environmental Science and Technology prepares individuals for positions in governmental agencies and as environmental consultants in manufacturing, construction, and agriculture. Jobs are in such areas as water and wastewater quality, recycling and waste minimization, noise and air pollution, and energy management. Students may concentrate in the following areas:

- Energy Technology
- Environmental Health and Safety
- Planning and Site Analysis
- Water and Waste Management

### Pre-engineering and pre-architectural

The following programs are designed for individuals who wish to begin studies in engineering or architecture at MTSU and then transfer to another university to complete the degree:

- Pre-architectural
- Pre-engineering

### Graduate Program

Master of Science in Engineering Technology and Industrial Studies with concentrations in

- Engineering Technology
- Occupational Health and Safety
- Industrial Relations

Engineering Technology and Industrial Studies

Box 27  
Middle Tennessee State University  
Murfreesboro, TN 37132

MIDDLE  
TENNESSEE  
STATE UNIVERSITY

## The Curriculum

The curriculum in all programs focuses on an applied learning approach that combines essential theory with practical, hands-on experiences. A variety of learning opportunities supports traditional classroom instruction.

## Laboratories

Modern, well-equipped labs are in place for students to gain practical experience in areas such as robotics, hydraulics, CAD/CAM, construction, concrete, manufacturing, and electronics.

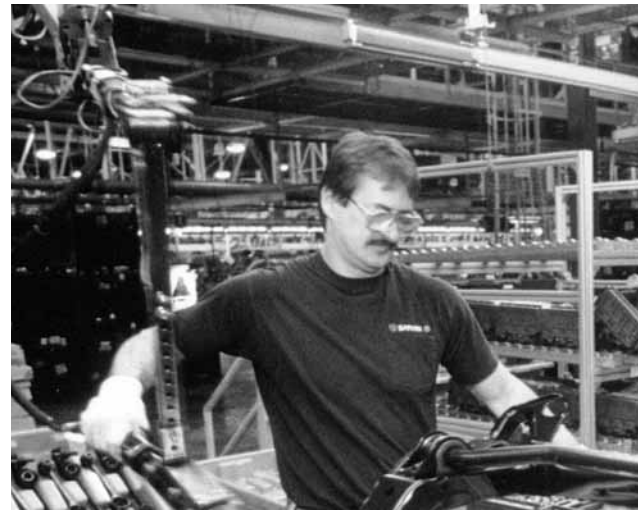


photo courtesy of AutoSimulations, Inc., Bountiful, Utah

*AutoMod's simulation capabilities allow engineers to consider "what if" alternatives while still in the design process.*

## Student Organizations

Organizations targeted to every major let students meet with professionals in their fields, develop teamwork and leadership skills, and network with other students with similar interests.

## Senior Capstone Courses

These courses give students the chance to apply four years of learning toward solving a practical problem. Students use an experimental approach to develop hypotheses, gather data, interpret results, and prepare formal oral and written reports.

## Industrial Involvement

Strong industrial involvement is essential to providing experiences that reflect current industrial practices. This involvement is provided through a variety of contacts, including

### The Russell Chair of Manufacturing Excellence

The Robert E. and Georgianna West Russell Chair of Manufacturing Excellence is designed to promote quality interaction with local industry. Students benefit from a variety of sponsored activities.

### Industry Partnerships

Advisory committees comprising representatives of local industry help ensure that programs are current and relevant to industrial needs. Industry partners host projects that qualify students for Six Sigma and LEAN Manufacturing certifications.

### Cooperative Education and Industrial Internships

Both paid and unpaid placements in actual work settings are available to all students through cooperative education and internships. Students apply concepts learned in the classroom and laboratory in actual settings.

## Graduates

Graduates of our programs hold many responsible positions in industry, education, and government.

*"The ETIS program at MTSU has been a vital part of the growth of middle Tennessee. It has not only prepared professionals for industry, it has served as a technology resource/advisor as well."*

Doug Hutchens  
Former Vice President of Operations  
Whirlpool, La Vergne

*"The ETIS program provides a practical, theory-based education that enables graduates to make contributions in the manufacturing sector."*

John Westbrook  
Vice President, Engineering Services  
USECO-EPCO Products  
a Division of Standex International Corp.



## The Faculty

A well-prepared faculty with strong academic backgrounds and appropriate industrial experience provide individualized attention through both instruction and advising.

## Accreditation

Professional accrediting agencies assure that instructional programs conform to high national standards of excellence. Most of our department's programs are accredited by appropriate agencies (including the National Association of Industrial Technology and the National Council for Accreditation of Teacher Education). The Computer, Electro-Mechanical, and Mechanical Engineering Technology programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Baltimore, Maryland.



*The 2004 Moonbuggy placed fourth in the nation at Marshal Space Center, Huntsville, Ala.*

## Financial Aid

Different kinds of scholarships and grant programs are available. Applications should be made through the Engineering Technology and Industrial Studies Department and the Student Financial Aid Office.

## The University and Community

MTSU has been listed in *U.S. News and World Report* as a national university. The spacious campus features a computerized library, a student recreation center, and a learning resources center. The enrollment of around 22,000 makes it possible to offer solid programs while retaining a close student/faculty relationship. MTSU offers curricular depth ranging from traditional areas on which the school was founded to new and innovative ones designed for a rapidly changing society.

MTSU is located in historic Murfreesboro, 30 miles southeast of Nashville. Living here allows students to enjoy a metropolitan atmosphere without the impersonal aspects of a large city.



*The Formula SAE concept that will compete at Pontiac, Mich., in May 2005*

## For more information

### ETIS Department

MTSU Box 19  
Murfreesboro, TN 37132  
615/898-2776  
fax: 615/898-5697

<http://mtsu32.mtsu.edu:11135/>

### Admissions Office

Cope Administration Building 208  
Middle Tennessee State University  
Murfreesboro, TN 37132  
615/898-2111  
1-800-331-MTSU (in Tennessee)  
1-800-433-MTSU (out of state)

[www.mtsu.edu/~admissn/index.htm](http://www.mtsu.edu/~admissn/index.htm)  
[admissions@mtsu.edu](mailto:admissions@mtsu.edu)