

MASTER OF SCIENCE IN MANUFACTURING ENGINEERING



TEXAS TECH UNIVERSITY

Department of Industrial, Manufacturing,
& Systems Engineering

ONLINE OR ON CAMPUS

PROGRAM OVERVIEW

The Whitacre College of Engineering at Texas Tech University has introduced an advanced Master of Science Program in Manufacturing Engineering to meet the rapidly growing needs of today's high-tech workforce. Led by the Department of Industrial, Manufacturing, and Systems Engineering and supported by the esteemed Stinson Advanced Manufacturing Technology Lab, this program offers a diverse and inclusive learning approach.

Our goal with the Manufacturing Engineering program is to prepare exceptional students for pivotal roles in high-tech manufacturing. Through a comprehensive curriculum and hands-on experience, students gain expertise in advanced manufacturing, quality management, process optimization, supply chain integration, & cutting-edge technologies. This equips them to effectively navigate modern manufacturing challenges.

The Master of Science Program in Manufacturing Engineering at Texas Tech University equips students with practical expertise by integrating engineering principles with emerging manufacturing technologies. Through rigorous coursework and engaging projects, students focus on developing critical thinking, problem-solving, and leadership skills essential for success in demanding industrial settings. The program emphasizes collaboration and establishes valuable industry connections, offering opportunities for internships, research, and potential job placements. Graduates are poised to excel as highly sought-after professionals in the dynamic realm of high-tech manufacturing.



PROGRAM OVERVIEW

The program is widely recognized for its distinctive interdisciplinary and experiential approach, setting it apart from conventional academic programs. In order to empower students in achieving their self-defined objectives, the program offers two elective degree plans:

CORE CLASSES

- ☐ IE 5351 Advanced Manufacturing Processes
- ☐ IE 5352 Advanced Manufacturing Engineering
- ☐ IE 5355 Computer-Aided Manufacturing
- ☐ IE 5356 Biomedical Design and Manufacturing

Average Starting Salary:

\$79,963

Potential Careers:

- | | |
|--------------------------|-----------------------|
| * Manufacturing Engineer | * Production Engineer |
| * Industrial Engineer | * Facilities Engineer |
| * Mechanical Engineer | * Project Manager |

Financial Aid:

Financial aid will be provided dependent on the qualifications. Merit scholarships which are based on academic-performance, will be awarded by the Graduate School and the Department. Detailed information about financial aid is available at:

www.depts.ttu.edu/gradschool/funding/ / www.depts.ttu.edu/imse/graduate/graduate_scholarships_imse.



Texas Tech University:

Established in 1923, Texas Tech University accommodated 40,542 students in Fall 2021 on its 1,839-acre campus in Lubbock, making it the nation's second largest campus. It's the only Texas campus to house a major university, law school, and medical school. With 10 colleges and a wide range of degree programs, the university holds a "Highest Research Activity" designation in the Carnegie Classification of Institutions of Higher Learning.



Program features:

The program's curriculum empowers students to apply their engineering, mathematical, and scientific expertise in designing systems and solving engineering challenges. Additionally, to help students achieve their unique objectives, the program offers two optional degree plans.

HOW TO APPLY!

Application Deadline -14 days prior to entry semester, for funding consideration:

Fall Semester: March 1 (Domestic); January 15 (International) ,*Spring Semester:* October 1 (Domestic) June 15 (International)

**APPLY
HERE**

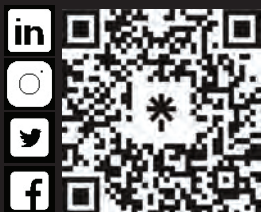


Required Documents:

- 1 Letters of Recommendation
- Official Transcripts
- GRS Scores (optional)
- TOEFL or IELTS Scores (International Students Only)

For admission details and online applications, visit:
www.depts.ttu.edu/gradschool/admissions/

From Here, It's Possible™



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Department of Industrial, Manufacturing, & Systems Engineering

The Department of Industrial, Manufacturing, and Systems Engineering at Texas Tech University is respected and ranked nationally. The department provides diverse engineering courses with small class sizes. Professors know their students by name and are genuinely interested in preparing them for a successful engineering career. The department began offering the Master of Science degree in 1961, and the doctorate degree in 1965. The department enrolls over 200 undergraduate, 160 graduate students and has conferred more than 1,600 B.S., 1,000 M.S., and 200 Ph.D. degrees.

EMPLOYMENT OPPORTUNITIES

MANUFACTURING

Industrial engineers are in demand across manufacturing, automotive, aerospace, electronics, & pharmaceutical sectors. They optimize processes, plan production, manage quality, handle supply chains, and design facilities.

LOGISTICS & SUPPLY CHAIN

Industrial engineers enhance supply chain efficiency through optimized inventory, warehouse layout, and transportation planning in logistics and distribution.

CONSULTING

Industrial engineers consult for diverse industries, specializing in process, supply chain, quality, or efficiency improvement. They optimize strategies in order to boost productivity and profits.

ENERGY & UTILITIES

Industrial engineers optimize energy usage, enhance efficiency, and promote sustainability in energy companies. They focus on renewable energy, smart grids, and energy management systems.

RESEARCH & ACADEMIA

Industrial engineers can pursue research and academic careers in universities, research institutions, or think tanks, advancing the field through teaching and mentoring.

TECHNOLOGY & SOFTWARE

Industrial engineers with expertise in data analysis, optimization, and process improvement are highly sought after in the tech sector. They boost efficiency and innovation through data-driven decisions, operations management, & process automation.



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