The Ingram School of Engineering at Texas State University offers a master of science degree with a major in engineering. This degree program enables graduates to:

- develop multidisciplinary engineering skills with academic depth and an industry-driven application focus
- perform effectively in all professional contexts while enjoying a highly rewarding career in engineering

Employment growth in engineering and engineering-related jobs that require a master’s degree is expected to be strong over the next decade and beyond, according to recent data from the U.S. Bureau of Labor Statistics. With input and support from major industries, Texas State’s master of science with a major in engineering program is designed to produce highly qualified graduates with multidisciplinary theoretical and practical skills. Such skills are necessary to analyze, design, develop, optimize and implement complex systems in the context of modern interdisciplinary engineering work. Graduates of this program will be ready to enter the workforce and make an immediate positive impact in industrial, service and government organizations, as well as to pursue further graduate studies leading to academic and research-related careers.
Program Structure and Coursework
The master of science with a major in engineering program provides a practical, industry-driven focus via a long-term, targeted technical project or research thesis related to real-world engineering applications. The project or thesis will be conducted in partnership with local industries and may involve off-campus collaborations.

The program has two options:
1. a traditional thesis option focused on an academic research topic
2. a directed technical research option focused on a practical, industry-driven project

Both degree options require a minimum of 34 hours:
• 18 hours of engineering core courses (9 required, 9 elective)
• 9 hours of multidisciplinary elective courses (9 elective)
• 7 hours of general core, including 1 hour of seminar and at least 6 hours of thesis or project

The degree structure is comprised of three separate concentration areas: electrical engineering, industrial engineering and manufacturing engineering. Students declare a major in one of these three concentrations. For more details on the course curriculum and for a pictorial view of the course trajectories for each of the three concentrations, please visit www.engineering.txstate.edu/Programs/Graduate.html.

Facilities
The Ingram School of Engineering has state-of-the-art multimedia-equipped classrooms, laboratories and equipment designed to foster engineering education and research. These facilities promote active learning through lectures combined with hands-on experience and encourage strong faculty-student interaction. Specialized facilities include well-equipped laboratories for research in the following areas:

- Electrical Engineering: flexible electronics and antenna design; networking and wireless communications; signal/image processing; embedded systems and computer architecture
- Industrial Engineering: modeling, analysis and optimization of industrial, manufacturing, energy and service-delivery systems; healthcare process optimization
- Manufacturing Engineering: next-generation manufacturing systems; advanced polymeric composites; industrial robotics; CAD/CAM; additive manufacturing; micro-machining
- Multidisciplinary Activities: sustainable/renewable energy sources; smart grid implementations and techniques; “Internet of Things” technologies and applications

Admission Policy
All applicants must hold a baccalaureate degree from a regionally accredited university. Applicants must have an undergraduate degree in engineering, computer science, physics, technology or a closely related field and demonstrate adequate preparation for the proposed area of study: A minimum GPA of 3.0 on a 4.0 scale on the last 60 undergraduate semester credit hours of letter-grade work earned at a four-year college or university before receipt of a bachelor’s degree (plus any previously completed graduate or professional work) is required.

Each applicant must submit the following to The Graduate College:
• online Graduate College application at www.ApplyTexas.org
• application fee
• one official transcript from each college or university attended
• official Graduate Record Exam (GRE). See www.gradcollege.txstate.edu/engr.html for GRE requirements and application deadlines.

Additional Admission Requirements
• a résumé or curriculum vitae detailing prior work experience, research experience, awards, scholarships and other related qualifications
• at least two letters of recommendation from non-related individuals familiar with the applicant’s scholarly work and/or relevant work experience
• a statement of purpose that conveys the student’s research interests, plans for graduate study and professional aspirations
• International students may be required to submit English proficiency exam scores, financial documents and official translations of transcripts. Please visit www.gradcollege.txstate.edu/intl_home.html for more information.
• Non-credit (leveling) coursework may be required prior to admission into the program for applicants lacking sufficient background. Any required leveling coursework must be completed with grades of B or better prior to admission.

Applicants may electronically submit the documents listed above to The Graduate College at www.gradcollege.txstate.edu/rqmt/doc. Recommendation letters may be sent by the recommender via e-mail to gradrqmt@txstate.edu.

Financial Assistance
The Ingram School of Engineering offers a limited number of instructional and research assistantships for qualified students. Highly qualified applicants may be offered graduate instructional assistant positions during admission. Interested individuals should contact the graduate advisor in the Ingram School of Engineering for faculty research interests and research assistantships.

For more information about scholarships and application deadlines, visit The Graduate College website at www.gradcollege.txstate.edu and click on Financing Your Graduate Education. Please note that program admission priority deadlines must be met in order to be considered for scholarships, fellowships and assistantships.

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Texas State University is an equal opportunity educational institution. This information is available in alternate format upon request from the Office of Disability Services. Texas State University is a tobacco-free campus.