Program Description
The Master of Science in Geospatial Information Sciences prepares students for a wide variety of careers that depend on geospatial information technologies and the collection, storage, management and analysis of spatial and geographical data. Taught by internationally recognized faculty at the University of Texas at Dallas, students in the program develop firsthand experience with and an advanced knowledge of:

- Geographic Information System (GIS)
- Global Positioning System (GPS)
- Satellite-based remote sensing

The program introduces students to a rigorous understanding of the technologies, quantitative techniques, models and theories used to acquire and manage spatially referenced information, analyze spatial processes, communicate spatial information, and provide spatial decision support.

Jointly offered by the School of Economic, Political and Policy Sciences and the School of Natural Sciences and Mathematics, the master’s program introduces students to leading experts and researchers in the field. Through coursework, research opportunities, internships and membership in professional organizations, students will develop a rigorous understanding of the technologies, models and quantitative techniques used to acquire, manage and analyze spatially referenced information. They will also enter the workforce with strong analytical and numerical skills, a knowledge of empirical and quantitative research methodologies, and the ability to employ novel geographic information sciences technologies.

Benefits
The Geospatial Information Sciences master’s program ensures that students gain a broad understanding of their discipline, apply their knowledge and analytical skills to create effective and novel solutions to practical problems and communicate and work effectively in collaborative environments.

Other benefits include:

- **World-Class Faculty**: Drawing its faculty from two schools—the School of Economic, Political and Policy Sciences and the School of Natural Sciences and Mathematics—the program is led by experts who are widely cited in their respective fields.
- **Comprehensive Curriculum**: Courses in the Geospatial Information Sciences master’s program will introduce students to new ideas, technologies, and competencies while preparing them to succeed in both public and private sectors.
- **Facilities**: Students have full access to four state-of-the-art computer laboratories housed in the School of Economic, Political and Policy Sciences. All computers are network linked and hold full suites of leading survey, qualitative, spatial and statistical analysis software, including Qualtrics, NVivo, ArcGIS, ENVI, EViews, R, STATA, and SAS.
- **Location**: Situated in the greater Dallas region—recently rated by Forbes magazine as the #1 “Best City for Jobs”—UT Dallas provides students with easy access to employers and internship opportunities, not to mention a large and supportive alumni population.
Career Opportunities
Graduates of the Geospatial Information Sciences program will be able to use their advanced training and specialized skillset in a variety of areas including:

- Public sectors, such as policy analysis, smart cities, transportation planning, geospatial intelligence, emergency response, public health and environmental sustainability.

- Private sectors, such as resource and petroleum exploration, site selection, logistics, driverless cars, real estate, marketing, and the internet of things.

 Marketable Skills
The Master of Science in Geospatial Information Science (GIS) program provides students with a solid understanding of the technologies, quantitative techniques, and models and theories of GIS, and the ability to apply the knowledge to support public and private sector organizations to address significant broad societal issues, and to enhance understanding of the human and natural environments.

- Students will be able to extract, construct, and process spatially referenced information by using global positioning systems, digital processing of remote sensing imagery, and address geocoding of socio-economic data, and to manage the data in a personal or enterprise geospatial database.

- Students will be able to create effective visual representations of geospatial data with online and/or offline visual analytic tools and platforms and be able to analyze geospatial data using spatial data analytics skills, spatial statistics methodologies, and spatio-temporal simulation models.

- Students will be able to automate geoprocessing procedures and build models through application programming with script languages or application programming languages.

Application Deadlines and Requirements
Please take note of all application deadlines and visit the Apply Now webpage to begin the application process. See the Geospatial Information Sciences program website for additional information.

Applicants to the Geospatial Information Sciences master’s degree program should have:

- A baccalaureate degree or its equivalent from an institution of higher education.
- A grade point average (GPA) of 3.0 out of a 4.0 scale.
- Test Scores: A combined verbal and quantitative score of at least 295 on the GRE, or equivalent score on the GMAT.
- Transcripts: Applicants must submit previous academic transcripts.
- Letters of Recommendation: Applicants must submit three letters of recommendation from individuals who can judge the candidate’s potential for success in the master’s degree program.
- Admissions Essay: Applicants must submit a one-page essay outlining personal background, education and professional objectives.
- International applicants must submit a TOEFL score of at least 80 on the internet-based test. Scores must be less than two years old. See the Graduate Catalog for additional information regarding English proficiency requirements for international applicants.

Admission is limited to fall and spring semesters.