



## Ready to apply?

Start building advanced geospatial skills for high-demand work in mapping, positioning, remote sensing, GIS and geospatial intelligence.

## Admission Requirements

- B.S. in geological, civil or environmental engineering; geological or environmental sciences; computer science; or a related field
- Minimum GPA 2.5 (no GRE required)
- Designed for working professionals, traditional graduate students and students seeking specialized geospatial training



Visit [go.mst.edu/geospatialstl](https://go.mst.edu/geospatialstl) to learn more about geospatial engineering at Missouri S&T.

## QUESTIONS?

**Corporate and Professional Education  
for St. Louis Operations**

[stl.mst.edu](https://stl.mst.edu) | [stl@mst.edu](mailto:stl@mst.edu)  
573-341-6148

## PROGRAM AT A GLANCE

### M.S. IN GEOSPATIAL ENGINEERING: ST. LOUIS PATHWAY

An online, professionally oriented pathway with flexible 8-week courses and focused St. Louis experiential connections.

#### FORMAT

Online asynchronous coursework plus selected St. Louis experiences

#### PACE

Accelerated 8-week sessions for working professionals

#### PATHWAYS

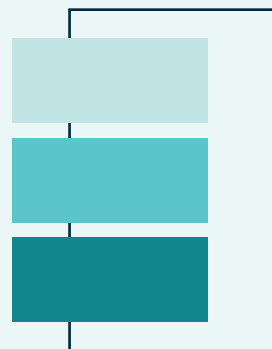
Individual courses, certificates and M.S. degree

#### GRE

No GRE required

## Stackable pathways

You don't have to commit to the full degree on day one. Start with a course. Build a graduate certificate. Apply eligible credits toward the M.S.



# Geospatial Engineering M.S.

St. Louis pathway  
Online. Applied.  
Connected.

MISSOURI  
**S&T**

Earth Sciences  
and Engineering  
Department



# Advance your career in the geospatial technology workforce.

## Build the engineering expertise and hands-on experience employers need across St. Louis and beyond.

Missouri S&T's M.S. in Geospatial Engineering combines geodesy, GIS, remote sensing, GNSS/PNT, UAS, LiDAR and geospatial data analytics with a strong engineering foundation. Designed for working professionals, graduate students and career changers, the program prepares you to acquire, analyze, model and interpret geospatial data and turn that data into better decisions in the field, in the lab and in the workplace. St. Louis is home to a growing ecosystem of organizations working in geospatial technology, national security, defense, engineering, transportation, mapping and remote sensing.

- **Geospatial Analysis:** GIS, remote sensing, data science and mapping.
- **Engineering and Field Systems:** GNSS/PNT, UAS/drone operations, LiDAR mapping
- **Government and Industry:** GNSS/PNT, UAS/drone operations, LiDAR mapping

## Earn your degree online. Connect in St. Louis.

### Flexible online courses. Applied experiences. Regional connections.

Most courses are delivered online in accelerated 8-week sessions, allowing students to complete coursework asynchronously while balancing professional and personal commitments.

Selected core courses include focused experiential activities in St. Louis, giving students opportunities to apply geospatial concepts, work with technology and connect with peers and professionals.

### TWO-DAY ST. LOUIS GEOSPATIAL BOOTCAMP

Selected core courses include a required, bootcamp-style gathering in St. Louis designed to bring online learning into the field.

Activities may include:

- Hands-on geospatial labs
- UAS/drone field demonstrations
- Applied geospatial scenarios
- Student collaboration and networking
- Visits to regional geospatial organizations

In-person participation is strongly encouraged. Students who cannot attend may participate through a synchronous virtual makeup option. There is no additional fee for bootcamp participation.

## Who is this program for?

- **Defense, intelligence and government professionals** — Advance skills in geospatial analysis, positioning and remote sensing.
- **GIS and mapping professionals** — Expand beyond GIS into engineering, sensing and analytics.
- **Military personnel and veterans** — Build expertise in geospatial engineering, positioning and operational mapping.
- **Engineers, scientists and recent graduates** — Add specialized geospatial expertise to your technical background.

## What you will learn

The curriculum brings together the technologies shaping modern geospatial engineering.

### GEODETIC SYSTEMS

Develop expertise in GNSS, positioning and navigation, coordinate systems, satellite geodesy, datums, reference frames, gravity, deformation and high-resolution topography.

### REMOTE SENSING / EARTH OBSERVATIONS

Learn to work with satellite imagery, UAVs, LiDAR, SAR/InSAR, photogrammetry and image-processing techniques, while applying GIS and AI-assisted methods to real-world environmental and engineering problems.

### GIS / GEOMATICS / AUTONOMOUS SYSTEMS

Explore GIS, spatial visualization, mapping, surveying, geomatics, robotics, localization, resilient navigation and multi-sensor integration.

