



GEOGRAPHIC INFORMATION SCIENCE

Looking for a career that combines cutting-edge geospatial technologies with business management? Consider the Illinois Professional Science Master's (PSM) program in geographic information science (GIS). Geospatial technologies, ranging from GPS-enabled devices to satellite remote sensing are an integral part of our interconnected world, and are applied in a wide range of industries including for example agriculture, healthcare, energy, and transportation.

PSM graduate students in GIS build a flexible, cross-disciplinary expertise around a strong GIS core, drawing upon the University of Illinois's renowned strengths in GIS, informatics, computer science, and related fields. PSM students will gain a firm foundation in GIS theory and applications, while acquiring business knowledge and professional skills. Additionally, the professional internship provides students with opportunities to apply their technical and business knowledge in an industrial/organizational setting.

Graduates will be prepared to apply their blended science and business education at companies that utilize GIS to enhance product sales, resource development, business efficiency, and service delivery. Many business functions rely on geospatial technologies, including for example:

- natural resource management
- marketing analysis
- site location analysis
- environmental risk assessment
- business intelligence operations
- logistics

The PSM's science core is complemented by a business curriculum that includes technology management, marketing, organizational management, entrepreneurship, process management, and more. A cross-disciplinary industry seminar series offers opportunities for personal interactions with industry and government leaders.

The program can be completed in 18 months of full-time study on the Urbana-Champaign campus, including required summer enrollment to complete the internship. A thesis is not required.

CAREER OPPORTUNITIES

- Business and logistics planning
- Market analysis
- Location-based services
- GIS software

PROGRAM ADVISOR

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Coordinated by the University of Illinois School of Earth, Society, and Environment in cooperation with the Graduate College.

Applications are submitted online. For additional information, visit the University of Illinois PSM website at psm.illinois.edu or email PSMdegree@illinois.edu.

ADMISSION REQUIREMENTS

- Bachelor's degree from a regionally accredited U.S. Institution or a comparable degree from a recognized institution abroad,
- Grade point average of 3.0 or higher (4.0 scale) for the last 60 hours of undergraduate work and for any graduate work,
- Graduate Record Examination (GRE),
- Test of English as a Foreign Language (TOEFL) for non-native speakers of English, and
- Three (3) letters of recommendation.

SAMPLE PROGRAM OF STUDY

Year 1: Fall

Science Curriculum

- GEOG 477 Introduction to Remote Sensing
- GEOG 480 Principles of GIS
- GEOG 595 Professional GIS Seminar

Business Curriculum

- Two 2-hour courses in
 - Business Fundamentals, and
 - Management and Marketing
- PSM 501 Industry Seminar I

Year 1: Spring

Science Curriculum

- GEOG 440 Business Applications of GIS
- GEOG 479 CyberGIS
- GEOG 595 Advanced Digital and Spatial Studies

Business Curriculum

- Two 2-hour courses in
 - Project Management, and
 - Finance
- PSM 502 Industry Seminar II

Summer Internship

- PSM 555 PSM Internship

Year 2: Fall

Science Curriculum

- GEOG 473 Digital Cartography and Map Design
- GEOG 489 Programming for GIS
- GEOG 595 GIS Project Management

Business Curriculum

- One 2-hour course in Science and Regulatory Policy
- PSM 503 Industry Seminar III

December Graduation

*This is a **sample curriculum**; your courses will depend upon your individual interests and career plans. For additional course offerings, visit: <https://psm.illinois.edu/gis>*

Students have interned at:

- CyberGIS Center,
- Dow AgroSciences,
- Esri,
- Gartner,
- John Deere,
- State Farm,
- UrbanGIS,
- and others.

Graduates have been hired by:

- Champaign County Regional Planning Commission,
- Dow AgroSciences,
- Esri,
- Google,
- John Deere,
- and others