CYBERGIS AND GEOSPATIAL DATA SCIENCE, MS

for the degree of Master of Science in CyberGIS and Geospatial Data Science (online)

CyberGIS – a new generation of geographic information science and systems (GIS) in the era of artificial intelligence and big data – represents the latest innovative development in the fast-growing field of geospatial data science. Combining advances in high-performance and data-intensive computing with developments in geospatial data analysis, management, processing, and visualization, cyberGIS has rapidly emerged as a major force in private and public organizations and in higher education for harnessing the rapid geospatial data revolution. The fully-online masters degree program in CyberGIS and Geospatial Data Science requires 32 credit hours (thesis not required). Students will work with their program advisor to individualize their program and the required capstone research project.

Admission
Applicants must have a Bachelor of Science (BS) degree from an accredited U.S. college or an approved institution of higher learning abroad, ideally in Geography, Computer and Information Sciences, or GIS but other degrees will be considered; with a GPA of 3.0/4.0 or higher for the final 60 semester hours. Students who do not meet the GPA criterion may still be eligible to enroll if they have relevant experience outside of the classroom. Language test (IELTS or TOEFL) scores are required for applicants whose native language is not English.

Facilities and Resources
The department hosts several state-of-the-art research laboratories maintained by individual faculty members. The CyberInfrastructure and Geospatial Information (CIGI) Lab (https://cigi.illinois.edu/) researches and develops cutting-edge cyberinfrastructure to advance geospatial science and technologies. The department also sponsors the CyberGIS Center for Advanced Digital & Spatial Studies (https://cybergis.illinois.edu/) whose mission is to empower advanced digital and spatial studies through innovation of CyberGIS technologies and applications. The lab utilizes several high performance computers and servers for performing computationally intensive geographic analysis and problem solving in various research, education, and outreach contexts.

Financial Aid
This online program is self-supporting and DOES NOT accept the following tuition and fee waivers (TFWs): Non-Academic waivers (including UIUC employees and employees of other state institutions); Academic waivers from UIUC, UIC and UIS employees; Related Agency waivers; waivers granted through fellowships/assistantships as governed by the Graduate College at UIUC; or Retiree waivers. Students in these programs are not eligible to hold a waiver-generating graduate appointment (assistantship or fellowship). Full-time employees may be admitted to these programs but their employee waiver is not eligible for use towards this program. This program does accept statutory waivers (veteran grants, etc.)

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Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Geography, PhD (http://catalog.illinois.edu/graduate/las/geography-phd/)

concentration:

Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

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