

GEODATA SCIENCE IS ON THE RISE AND THE INDUSTRY NEEDS YOU

ADVANCE YOUR FUTURE AT PURDUE

Purdue University's Geodata Science for Professionals (GDSP) master of science program is at the forefront of geodata teaching and technology. Career-minded scientists like you can join this program, the first of its kind in the nation, and find competitive employment as a professional — or advance an existing career — in as little as three semesters.

The fact is, there exists a widening gap between current college curricula for geodata science and the needs of the industry. We want you, through our GDSP program, to be fully prepared to fill that gap as soon as possible. Ultimately, you will emerge from our program with diverse advancement possibilities.

Foundationally grounded yet decidedly nimble, our concentrated, holistic and interdisciplinary program stands apart by:

- Merging data science and geoscience in unprecedented ways.
- Pairing top scholars with enterprising students in an agile, intimate teaching and learning environment.
- Capitalizing on Purdue's cutting-edge computer technology and unmatched access to data resources.
- Discovering and teaching the newest technologies as they emerge.
- Applying the University's proven scientific rigor and innovative culture to the changing needs of industry.

Bolstered by customized curricula, challenging courses, collaborative research experiences and personalized guidance, you will enter the workforce with a full set of immediately applicable skills in areas such as:

- Hadoop and Spark systems for big data.
- GPU computing for machine learning.
- Remote sensing and GIS data analytics for geoinformatics.
- Weather and climate risk assessment.
- Data-driven environmental hazard mitigation.
- Seismic inversion and imaging for geophysical studies and resource exploration.
- Machine learning for geophysical inversion and parameter estimation.



PHOTOGRAPHY



THE DETAILS

The Purdue GDSP program, housed in the College of Science's Department of Earth, Atmospheric, and Planetary Sciences, features on-campus, career-focused enrichment for full-time or part-time students. We offer individual guidance, group-immersion courses and diverse electives. Full-time students often finish in three semesters.

Our program features an intensive, 31 credit-hour curriculum that includes at least two courses in the following areas:

- Core geodata science
- Core foundational geoscience
- Applied geodata
- Computation and statistics

You can graduate with a certificate in one or more of the following areas:

- Applied statistics
- Geodata analytics
- Computational science and engineering

For a complete list of courses and requirements, visit eaps.purdue.edu/gdsp/requirements.

YOUR FUTURE STARTS HERE

You can contact Wen-wen Tung, GDSP program director, for more information about Purdue's dynamic GDSP program. She can be reached via email at wwtung@purdue.edu.

APPLY NOW

Apply to the Purdue GDSP program today through the University's Graduate School website, purdue.edu/gradschool/admissions/how-to-apply/index.html. The application deadlines are:

- **Oct. 15** for spring enrollment
- **March 15** for fall enrollment

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College of Science



“After my undergraduate studies, I felt somewhat lost about what to do next. The Purdue GDSP program has provided a framework and given me confidence in my future. I feel like the program provided me with a concrete path to a career where I can be successful in anything involving data science.”

Hannah Walcek
GDSP student



“Analyzing data is an exciting process of discovery. It fosters creating and testing theory, and discovering the unexpected. The GDSP program does an excellent job teaching you how to analyze geodata, enabling you to share in the excitement of discovery in Earth, atmospheric, and planetary sciences.”

William S. Cleveland
Shanti S. Gupta Distinguished Professor of Statistics
GDSP interdisciplinary affiliated faculty
Courtesy professor of computer science