

THIS ONE SMALL STEP

MAY LEAD YOU TO YOUR NEXT

GIANT LEAPS

The Purdue University Master of Science program in Geodata Science for Professionals (GDSP), 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 fall or spring 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 geosciences*
- Applied geodata
- Computation and statistics

**Inclusively geological, geophysical, climate, atmospheric, environmental, and planetary sciences.*

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

- Geospatial Information Science
- Spatial Data Science
- Computational Science and Engineering
- Applied Statistics

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

 **PURDUE UNIVERSITY** | Department of Earth, Atmospheric, and Planetary Sciences
eaps.purdue.edu/gdsp

EARTH, ATMOSPHERIC, AND PLANETARY SCIENCES
550 Stadium Mall Drive
West Lafayette, IN 47907-2051

 **PURDUE UNIVERSITY**

GEOSCIENCES + DATA SCIENCE = GEODATA SCIENCE

**GEODATA SCIENCE FOR
PROFESSIONALS
MASTER'S PROGRAM**

*Geodata and AI are on the rise.
Advance your future with us.*

 **PURDUE UNIVERSITY** | Department of Earth, Atmospheric, and Planetary Sciences

YOUR FUTURE STARTS HERE

To learn more about the GDSP and how you can be a leader in innovation, contact Wen-wen Tung, program director. 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.link/gdsp_apply.

APPLICATION DEADLINES

- October 15 for spring enrollment
- March 15 for fall enrollment

TOP 10

PUBLIC UNIVERSITIES

Wall Street Journal/New York Times, 2022

TOP 5

IN U.S. FOR GRADUATING STEM MAJORS

Forbes, 2020

#1

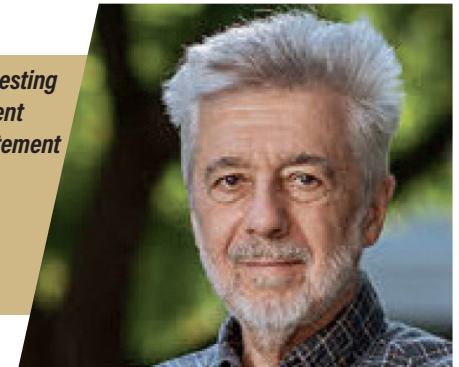
PUBLIC UNIVERSITY IN INDIANA

Niche, 2022

"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, and Courtesy Professor of Computer Science



LET PURDUE UNIVERSITY BE YOUR PARTNER

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 (1.5 years).

The fact is, there exists a widening gap between current college curricula for data science applied to geosciences* 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.

** Inclusively geological, geophysical, climate, atmospheric, environmental, and planetary sciences.*

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

- Merging data science and geosciences 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:

- Unix/Linux-based high-performance computing and cloud computing.
- GPU computing for machine learning and deep learning/AI.
- Hadoop and Spark systems for big data analytics.
- Remote sensing and GIS data analytics for geoinformatics and planetary science.
- Weather, climate, and environmental informatics and risk assessment.
- Analytics and machine learning for seismic inversion and imaging for geophysical studies and resource exploration.



"The GDSP program has provided me an abundance of opportunity and direction at a time when I was determining the best path for my professional career. The people I have been lucky enough to work with constantly help me learn and develop my data science skills. This program has definitely taught me the fundamental skills needed to be successful in my future career."

Dana Singh

GDSP student