

DOCTORAL RESEARCH ASSISTANTSHIP IN GEOINFORMATICS AND SOIL

Dr. Siddhartho (Sidd) Paul, Assistant Professor of Geospatial Science

Website:

<https://www.sspaul.com/>

<https://ag.purdue.edu/directory/sspaul>

Description of the positions

Successful applicants will join the Geoinformatics, Ecosystem Management & Soil Sustainability (GEMS) lab, led by Dr. Sidd Paul at Purdue University, IN, USA.

Our research attempts to understand how anthropogenic modifications of the natural landscape impact various soil-related ecosystem services using a range of earth observation and geospatial data science techniques. Specifically, the GEMS lab is interested in studying the effects of land management and climate change on soil organic carbon, soil hydrology, water resources, and crop yield at farm-to-regional scales.

Qualifications

PhD Position: An MSc in Soil Science, Agroecology, Geography, Earth & Environmental Sciences, or a closely related field. A strong interest in digital and precision agriculture and sustainable soil management is desired. Some experience with programming in R and/or Python is needed. Related previous research experience and coursework, and a commitment to contributing to a collaborative and inclusive environment are valued.

Preferred Start Date

Spring and Summer 2025

Stipend/Salar, Benefits Information

The selected applicant will receive stipend/salary commensurate with experience plus health benefits and (for PhD student) tuition remission. The students' and postdoc's development will also be supported with teaching, conferences, and outreach opportunities following a customized development plan.

<https://www.purdue.edu/gradschool/documents/gpo/graduate-student-employment-manual.pdf>

How to Apply

Candidates should first send a CV and 1-page cover letter to Dr. Sidd Paul (sspaul@purdue.edu). Application screening will begin immediately and continue until a suitable candidate is found.

PhD assistantships are contingent upon meeting all admission requirements of the department and Purdue Graduate School:

<https://www.purdue.edu/gradschool/admissions/how-to-apply/index.html>

PhD students have the option to enroll in either Agronomy or Ecological Sciences & Engineering program.