

Teaching Pathway Postdoctoral Position in Geographic Information Systems (GIS)

The Department of [Environmental and Ocean Sciences \(EOS\) at the University of San Diego](#) (USD) seeks applicants who will have earned their PhD by the position start date in Geography, GIS, Environmental Science, or a related field with applied experience using GIS to tackle a variety of environmental research questions. We enthusiastically seek applicants who use GIS to investigate issues that cross borders, including those related to conservation and restoration, natural disasters and recovery, natural resource management, urban planning and transportation, agriculture, environmental justice, public safety and health, sustainability, to name a few.

The [USD GIS Certificate](#), housed within EOS, is a relatively new, but growing program across USD. We currently offer six geospatial or [GIS-based courses](#) (EOSC 114 Power of Maps, EOSC 314 Introduction to GIS, EOSC 415 Advanced GIS, EOSC 420 Remote Sensing, and EOSC 422 Topics in GIS), while geospatial data analysis is used in additional courses across the campus. The GIS courses fulfill requirements for the GIS certificate and for two of the pathways in the EOS major, and the Sustainability pathway of the Integrated Engineering major. There is also increasing interest among students in participating in research projects that leverage GIS to tackle social and environmental justice issues, including those that cross boundaries/borders.

Curricular Needs: The anticipated teaching load for the postdoc would include 9-12 teaching units/year, including EOSC 114 Power of Maps (3 units/class) and/or EOSC 314 Introduction to GIS (6 units/class) within their first year. During their second year of teaching, the postdoctoral faculty would be invited to teach an advanced GIS course such as EOSC 415 Advanced GIS (6 units/class) or EOSC 422 Topics in GIS (3 units/class) with a focus of their choice.

Given the inter- and transdisciplinarity of GIS, there may be opportunity for the postdoc to collaborate with other departments, including teaching courses that use GIS tools and techniques to explore concepts and questions central to other disciplines. Such courses would satisfy the Applications of GIS across the Curriculum portion of the GIS certificate.

Mentoring Plan: The EOS department broadly uses a multiple-level mentoring approach, in which faculty mentor each other as well as graduate and undergraduate students, who in turn mentor peers or near-peers. Additionally, a GIS faculty member from EOS will act as a teaching mentor to support the postdoctoral faculty in expanding their teaching toolset. We will develop in the first semester an individualized mentoring plan adapted to the strengths and professional goals of the postdoctoral faculty. By the end of the 2nd year, our goal is for the postdoctoral faculty to have (a) developed a robust portfolio of teaching materials, (b) learned and tested at least two new teaching methods, (c) co-advised at least one undergraduate research project.

To apply, please see post here: JOBS @ USD, position # 5422
<https://jobs.sandiego.edu/en-us/job/497197/teaching-pathway-postdoctoral-faculty>

For questions, please reach out to Suzanne Walther at swalther@sandiego.edu