

The Institute for Ecological Monitoring and Management (IEMM) at San Diego State University (SDSU) is looking to hire multiple postdoctoral researchers. IEMM uses cutting-edge scientific research methods and meaningful community and stakeholder engagement and collaboration to advance climate adaptation, sustainability, and conservation for California's communities and natural landscapes.

IEMM performs its mission of science in service by linking SDSU scientists with California communities, resource managers, and planners. Through robust partnerships, IEMM addresses current challenges related to climate change, sustainable communities, and conservation of biodiversity. Drawing from extensive expertise across the SDSU campus, IEMM provides interdisciplinary technical, scientific, and analytical assistance.

Interested applicants are asked to submit their application materials [here](#). Please direct questions to mjennings@sdsu.edu and rlewis@sdsu.edu

DESCRIPTION OF THE POSITIONS

The Institute for Ecological Monitoring and Management at San Diego State University is hiring 3-4 postdoctoral research positions in landscape ecology, applied wildlife conservation, and climate adaptation, readiness, and resilience. Candidates with experience in landscape ecology, wildlife connectivity, population dynamics, climate modeling with ecological data, and/or data integration for conservation and natural resource management decision making in a changing climate are encouraged to apply.

SPECIFIC DUTIES

Postdoctoral researchers are responsible for but not limited to:

The postdoctoral researchers will have an opportunity to lead research on a number of projects funded by NSF, CDFW, University of California, NOAA, and NASA, to advance applied conservation approaches to connectivity, restoration, land-use, drought and fire response, and climate readiness and resilience. The projects will use in situ ecological data to conduct quantitative analyses such as occupancy modeling, spatial analyses, population estimation, fire and drought data integration for decision support, and analysis of the impacts of climatic conditions on success of management, ecological restoration and conservation planning. The positions may require travel within California.

Position-Specific Responsibilities

Wildlife landscape ecology (1 position)

Seeking a highly qualified and experienced candidate to join our research team and lead efforts aimed at understanding the dynamic relationship between animal distribution, abundance and landscape structure, composition, and configuration. Research experience in landscape connectivity, habitat modeling, and population estimation preferred. Applicants should have strong interest and background in applied ecology, conservation, and spatial analyses. Quantitative proficiency in occupancy, sightability, mark/recapture, connectivity and/or other relevant quantitative approaches are needed.

Climate adaptation and resilience (2-3 positions)

Seeking one to two highly qualified and experienced candidates to join our research team and lead efforts in climate adaptation, climate readiness, and resilience. Candidates will join ongoing projects on drought preparedness and response, stewardship and restoration planning and action in natural lands, and fire resilience of Southern California montane forests. Relevant research areas include climate adaptation, integration of climate and remotely-sensed data for conservation, climate modeling with ecological data, and structured decision making for natural resource management in a changing climate. Candidates must be proficient in GIS and R or Python, with quantitative skills in remote sensing and/or experience working with large climatic data sets preferred.

Research Activities 60%

Developing research questions
Data collection, management, and analysis
Research, development, and application of appropriate analytical tools
Writing for manuscripts and grant proposals
Communication with project team members and advisors
Support PI with project reporting and deliverable development
Coordinate with other postdoctoral researchers as a contributor to projects they lead

Management of Project Collaboration and Supervision 30%

Coordinate with project team for outreach and engagement with project stakeholders
Participate in preparing and presenting in project meetings and workshops
Contribute to facilitating feedback from partners and stakeholders
Collaborate with team members about adapting project outputs based on feedback
Participate in Conservation Ecology Lab weekly lab meetings
Contribute to lab community by supporting undergraduate and graduate student development
Supervise undergraduate or graduate student contributors to projects
Provide guidance and leadership to postdoctoral researchers contributing to projects led by the incumbent

Other Duties and Responsibilities as Assigned 10%

Work with outreach and communication teams on messaging for science delivery and dissemination
Other administrative duties as assigned

QUALIFICATIONS AND SPECIAL SKILLS**Project Specific Knowledge and Abilities**

- Knowledge of and ability to use basic office support technology systems such as MS Word, Excel, PowerPoint.
- Excellent English oral and written communication skills, including a sound foundation in English grammar, spelling, and punctuation.
- Experience in interdisciplinary and innovative, integrated research approaches.
- Ability to apply a wide range of applicable quantitative/analytical skills in R, Python, and/or GIS.
- Ability to plan and coordinate work activities in a proactive and organized manner.
- Ability to apply independent judgment, discretion and initiative to address problems and develop practical and creative solutions.
- Ability to work in a collaborative setting with project team members, stakeholders and partners at natural resource management agencies, community organizations, Tribal governments, or other non-academic entities.
- Experience and interest in translating complex scientific concepts or analyses into accessible frameworks for application by managers or decision makers.
- Ability to display flexibility in handling multiple work priorities and frequent interruptions.

Core Experience/Education

- Ph.D. in ecology, geography, biology, or similar field required.
- Demonstrated scholarship, leadership, and at least 5 years' experience conducting ecological research

PREFERRED QUALIFICATIONS AND SPECIAL SKILLS

- Experience in project management and applied science delivery
- Excellent organizational skills and attention to detail

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Rebecca Lewison, PhD.

Professor, Biology

Director of Research Initiatives - Broadening Inclusive Excellence, Division of Research and Innovation

Director, Institute of Ecological Monitoring and Management

Executive Director, Center for Community Energy and Env. Justice

Pronouns: she/her/hers

We are learning on Kumeyaay land

SDSU is a proud Latinx/Chicanx Serving Institution

I have [pledged](#) to support SDSU's African-American Community

I have [pledged](#) to support SDSU's APIDA Community