

Position Description

Postdoctoral Research Fellow in Spatial Ecology and Remote Sensing



Details

Faculty or Portfolio	Faculty of Science Engineering and Built Environment
Division or School or Institute / Team	School of Life and Environmental Sciences, Blue Carbon Lab
Employment	Full time and Fixed Term
Location	Melbourne Burwood Campus
Classification	Level A or B
Manager	Professor in Marine Science

Deakin

Deakin is a Victorian university with a global impact. We are agile and innovative, and committed to making a positive impact through our excellence in education and research and the contributions we make to the wider community.

Our reputation has been built on the dedication and expertise of our staff. We offer a dynamic, diverse, and inclusive working environment with opportunities to grow and develop careers. We believe that a progressive, thriving culture will ensure people choose to come, and stay at Deakin and contribute to our ongoing success.

As one of Australia's largest universities, Deakin has strong global linkages, world-class research and an education portfolio that blends the best of campus and digital delivery into a highly supportive and personalised student experience.

We offer outstanding education founded on the experience we create for our learners and guided by graduate outcomes for successful lives and careers. We undertake globally significant discovery research that benefits our communities through the innovative translation of our ideas into new services, products, policies, and capabilities.

At Deakin we value diversity, embrace difference, and nurture an inclusive, safe and respectful community. Deakin is an Employer of Choice for Gender Equality, a SAGE Athena SWAN Bronze Award holder, seeking gender equity for Women in STEMM, and a Silver Award holder in the Australian Workplace Equality Index for LGBTQ inclusion. We strongly encourage applications from Aboriginal and Torres Strait Islander people and people of all cultures, abilities, sexualities, and genders.

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Overview

This Postdoctoral Research Fellow in Spatial Science and Remote Sensing position sits within Deakin University's Blue Carbon Lab (BCL). As the successful candidate, you will join a collaborative team of researchers focused on understanding and responding to the impacts of global change on freshwater, coastal and ocean ecosystems. BCL's overarching aim is to produce 'Science for Impact', offering innovative research solutions to help mitigate climate change and enhance our blue economy, while also supporting aquatic biodiversity, economic growth, and community wellbeing. BCL and its partners currently have research projects in over 30 countries, supported by a range of funding sources.

This position is to grow BCL's capacity to deliver blue carbon projects and the successful candidate will undertake research in spatial science and remote sensing, focusing on mapping and modelling blue carbon stocks. **The role is advertised at both levels A and B, allowing to appoint at the level that reflects the experience of the candidate.** The candidate will be expected to work closely with BCL's senior researchers in team-based research. In addition, the Fellow will be expected to collaborate with external stakeholders and maintain links and partnerships with relevant industry and professional communities. This position is based at Deakin University's Burwood Campus. Flexible working arrangements to alternate work from home and in the office are supported. Occasional field and lab work may be required.

Responsibilities

1. Undertake spatial analyses and modelling of blue carbon ecosystems and stocks.
2. Undertake and complete research projects under their responsibility to meet deadlines
3. Remain up to date with current literature and methods in the relevant areas.
4. Produce data, maintain data protocols, and record data into the Deakin's online database.
5. Work with multidisciplinary teams of staff to undertake field work, data analyses and reporting with constrained timelines.
6. Prepare publications, reports, and engage a broader audience with other forms of communication (e.g., social media)
7. Liaise and work with a range of stakeholders including industry partners, government, philanthropic, scientists, Indigenous and non-Indigenous land managers, and landowners to undertake and communicate project
8. Attend meetings associated with the research project(s), such as BCL/ School meetings and/or membership of a limited number of Committees.
9. Reporting of activities against identified milestones, and presentation of findings at seminars, workshops, and conferences.
10. Contributing to grant applications and reporting of results to funding agencies.

Relationships

Internal relationships: Students and staff (academic and professional) within the Blue Carbon Lab, the School of Life and Environmental Sciences, various Strategic Research and Innovation Centres and Institutes, the Faculty of Science, Engineering and Built Environment, and Deakin Media Relations and Corporate Communications

External relationships: Various national and international organisations and individuals belonging to, but not limited to, industry partners/sponsors, government organisations, academic collaborators, Traditional Owners, local community organisations, and citizen scientists.

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Selection

Qualifications and experience

- PhD in spatial ecology, remote sensing ecology, terrestrial GIS/remote sensing, marine science, or related discipline.
- Demonstrated experience in publishing peer-review research applying remote sensing, geographic information system (GIS) and statistical modelling techniques to spatial sample design, mapping, and modelling species, landscape and/or seascape data to inform ecosystem science.
- Demonstrated experience in organising and delivering fieldwork campaigns.
- Demonstrated experience in conducting spatial analysis using coding languages (e.g., R, Python)
- A research track record in remote sensing and spatial modelling applied to blue carbon and a demonstrated ability to plan, initiate, and lead high-quality research.
- Ability to develop collaborative work in teams and to work effectively across disciplines.
- Demonstrated ability to meet tight deadlines.
- Demonstrated high-level organisation, negotiation, and interpersonal skills, including the ability to work both collaboratively in a research team, autonomously when required, and build effective working relationships with diverse stakeholders.
- Demonstrated excellent oral, written communication and presentation skills.

Desirable

- Experience with remote sensing and machine learning approaches for coastal and freshwater wetlands.

Capabilities

1. **Shaping Strategic Direction:** Thinks strategically to achieve organisational goals; sets and develops well considered strategies
2. **Navigating Complexity:** Proactively and quickly making sense of complex issues; responding effectively to difficult and ambiguous situations
3. **Creating and Innovating:** Explores concepts and insights, generates new ideas and a range of innovative solution
4. **Learning Agility:** Learns from experiences; applies learnings to perform successfully in new situations
5. **Planning and Organising:** Plans, analyses, and co-ordinates the delivery of projects while balancing priorities and resources
6. **Digital Literacy:** Interprets and distils information; produces clear communications through a variety of digital platforms
7. **Collaboration:** Proactively supports working together, shares ideas and provides constructive feedback; respects and values others
8. **Building Networks and Partnerships:** Identifies and invests in relationships essential for growth and positive outcomes

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9. **Personal Resilience:** Maintains composure and focus under pressure, adapts to changing situations and recovers from setbacks

Special Requirements

- Infrequent work outside business hours is required (e.g., work at evening or weekend events is required)
- Regular to Infrequent travel will be required describe further (e.g., interstate, or overseas travel is required or regular travel within Victoria, not including between campuses)
- Working with Children Check (refer to Recruitment Procedure)

Note

The intention of the position description is to provide an outline of scope and responsibilities, at a point in time. Please note, responsibilities may evolve in accordance with organisational needs.