

Postdoctoral Research Associate in Biogeochemical
Modelling
The University of Sydney

Direct Link: <https://www.AcademicKeys.com/r?job=254817>

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Posted Mar. 24, 2025, set to expire Apr. 27, 2025

Job Title Postdoctoral Research Associate in Biogeochemical Modelling
Department School of Life and Environmental Sciences
Institution The University of Sydney
Sydney, , Australia

Date Posted Mar. 24, 2025

Application Deadline Apr. 27, 2025

Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Environmental Sciences/Ecology/Forestry
Earth Sciences

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Job Description

- Located on the Camden Campus at the University of Sydney in the School of Life and Environmental Sciences

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- Full time, 2-year fixed term position
- Base Salary \$105,314- \$116,679 + 17% superannuation

About the opportunity

The School of Life and Environmental Sciences (SOLES) at The University of Sydney has an exciting opportunity for a Postdoctoral Research Associate to join Feike Dijkstra's research team focusing on plant-soil interactions affecting carbon and nutrient cycling. The successful applicant will take a leading role in the Discovery Project "Root effects on soil organic matter: a double-edged sword" funded by the Australian Research Council. The project will use state-of-the-art computer models that incorporate the latest frameworks on soil organic matter interacting with plant roots. Research will lead to an improved capacity to predict soil organic matter dynamics in grassland ecosystems affected by drought. The role presents an opportunity to collaborate with leading partners in our research including Claudia Keitel, Federico Maggi and Francesca Cotrufo.

You will be responsible for:

- Modification, parameterization, calibration, and validation of mechanistic models to simulate soil organic matter dynamics in grasslands affected by drought
- presenting project updates, overviews, and formal presentations of research activities
- preparation of peer-review papers, as a lead or co-author
- providing appropriate mentoring to relevant staff and students on the projects

About you

The University values courage and creativity; openness and engagement; inclusion and diversity; and respect and integrity. As such, we see the importance of recruiting talent aligned to these values and are looking for a Postdoctoral Research Associate in Biogeochemical Modelling who has:

- a PhD or near completion in biogeochemistry, soil science, environmental science, or a related discipline
- a developing research profile evidenced by original, high-quality and independent research in carbon/nutrient cycling in terrestrial systems
- experience in using mechanistic models, and preferably with coding experience
- excellent written, oral and interpersonal communication and time management skills

Pre-employment checks

Your employment is conditional upon the completion of all role required pre-employment or

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background checks in terms satisfactory to the University. Similarly, your ongoing employment is conditional upon the satisfactory maintenance of all relevant clearances and background check requirements. If you do not meet these conditions, the University may take any necessary step, including the termination of your employment.

EEO statement

At the University of Sydney, our shared values are trust, accountability and excellence and we strive to be a place where everyone can thrive. We are committed to creating a University community that thrives through diversity and reflects the wider community that we serve. We deliver on this through our commitment to diversity and inclusion, evidenced by our people and culture programs, as well as key strategies to increase participation and support the careers of Aboriginal and Torres Strait Islander People, women, people living with a disability, people from culturally and linguistically diverse backgrounds, and those who identify as LGBTIQ+. We welcome applications from candidates from all backgrounds.

We are proud to be recognised as an Australian Workplace Equality Index (AWEI) Gold employer. Find out more about our work on diversity and inclusion.

How to apply

Applications (including a cover letter, CV, and any additional supporting documentation) can be submitted via the Apply button at the top of the page.

For employees of the University or contingent workers, please login into your Workday account and navigate to the Career icon on your Dashboard. Click on USYD Find Jobs and apply.

For a confidential discussion about the role, or if you require reasonable adjustment or any documents in alternate formats, please contact Cherie Goodwin or Rebecca Astar, Recruitment Operations by email to recruitment.sea@sydney.edu.au

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The University reserves the right not to proceed with any appointment.

Click to view the Position Description for this role.

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Applications Close Sunday 27 April 2025 11:59 PM

EEO/AA Policy

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

School of Life and Environmental Sciences
The University of Sydney
(G12) 22 Codrington St
Sydney
Australia

Contact E-mail recruitment.sea@sydney.edu.au