

0114679 Postdoctoral Research Fellow in Theoretical
Nonlinear Optics
University of Sydney

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Downloaded On: May. 9, 2024 7:14am

Posted Feb. 8, 2024, set to expire Jun. 8, 2024

Job Title 0114679 Postdoctoral Research Fellow in Theoretical
Nonlinear Optics
Department School of Physics
Institution University of Sydney
Sydney, NSW, Australia

Date Posted Feb. 8, 2024

Application Deadline Feb. 29, 2024

Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Physics - Atomic/Molecular/Optical/Plasma
Physics - General

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Apply By Email

Job Description

- Full time, 3 years fixed term. Located on the Camperdown Campus at the School of Physics
- Exciting opportunity to contribute to one of the leading Physics departments in Australia
- Base Salary Level A/B \$105,350 to \$140,586 p.a + 17% Superannuation

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About the opportunity

The University of Sydney's [School of Physics](#) is welcoming applicants for a **Postdoctoral Research Fellow in Theoretical Nonlinear Optics** to work closely with [Professor Martijn de Sterke](#).

The research will be carried out in the context of the Microcomb Science and Technology theme of the newly established ARC Centre of Excellence in Optical Microcombs for Breakthrough Science (COMBS).

You will investigate how dispersion affects the formation and properties of microcombs and will collaborate with other researchers with a variety of backgrounds, both at the University of Sydney and at other nodes of the Centre. You will also contribute to the general scientific and education activities of the Centre.

Your key responsibilities will be to:

- collaborate with Centre researchers at the University of Sydney and at other nodes
- conduct theoretical research in frequency combs
- report on research progress to Centre researchers and administrators
- Supervise research project of postgraduate and undergraduate students
- communicate the research results through journal articles and conference presentations
- contribute to the general activities of the research group and of the Centre.

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 Fellow in Theoretical Nonlinear Optics** who has:

- a PhD in Physics, Electrical Engineering, Applied Mathematics or a related subject (candidates who are near completion may also be considered)
- a track record of high-quality research in theoretical nonlinear optics
- demonstrated experience investigating frequency combs
- demonstrated experience in conducting numerical simulations
- excellent verbal and oral communications skills.

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Desirable

- a track record of interacting with experimentalists
- an interest in outreach activities.

To keep our community safe, please be aware of our [COVID safety precautions](#) which form our conditions of entry for all staff, students and visitors coming to campus.

Pre-employment checks

Your employment is conditional upon the completion of all role required pre-employment or 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 include [diversity and inclusion](#) and we strive to be a place where everyone can thrive. We are committed to creating a University community which reflects the wider community that we serve. We deliver on this commitment through 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.

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.

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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 Chris Masaoka, 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.

EEO/AA Policy

We are committed to diversity and social inclusion. We welcome applications from women (particularly for senior and non-traditional roles), Aboriginal and Torres Strait Islander people, people with a disability, people who identify as LGBTIQ, and people from culturally and linguistically diverse backgrounds. (c) The University of Sydney

Contact Information

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

Contact

The University of Sydney
Sydney
Australia

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