



## Position Description – Research Assistant – Laser Threshold Magnetometry

### Position Details

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<b>Position Title:</b>	Research Assistant
<b>College/Portfolio:</b>	STEM College
<b>School/Group:</b>	School of Science
<b>Campus Location:</b>	Based at the City campus but may be required to work and/or be based at other campuses of the University.
<b>Classification:</b>	Academic Level A
<b>Employment Type:</b>	Fixed Term - 1 Year
<b>Time Fraction:</b>	1.00

### RMIT University

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RMIT is a multi-sector university of technology, design and enterprise. The University's mission is to help shape the world through research, innovation and engagement, and to create transformative experiences for students to prepare them for life and work. For more information on RMIT University follow the links below.

<https://www.rmit.edu.au/about>

<https://www.universitiesaustralia.edu.au/university/rmit-university/>

<https://www.rmit.edu.au/about/facts-figures>

Our three main campuses in Melbourne are located in the heart of the City, Brunswick and Bundoora. Other locations include Point Cook, Hamilton and Bendigo, two campuses in Vietnam (Hanoi and Ho Chi Minh City) and a centre in Barcelona, Spain. RMIT is a truly global university.

<https://www.rmit.edu.au/about/our-locations-and-facilities>

We are also committed to redefining our relationship in working with, and supporting, Indigenous self-determination. Our goal is to achieve lasting transformation by maturing our values, culture, policy and structures in a way that embeds reconciliation in everything we do. We are changing our ways of knowing, working and being to support sustainable reconciliation and activate a relationship between Indigenous and non-Indigenous staff, students and community. Our three campuses in Melbourne (City, Brunswick and Bundoora campuses) are located on the unceded lands of the people of the Woi Wurrung and Boon Wurrung language groups of the eastern Kulin Nation.

## Why work at RMIT University

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Our people make everything at the University possible. We encourage new approaches to work and learning, stimulating change to drive positive impact. Find out more about working at RMIT University, what we stand for and why we are an Employer of Choice.

<https://www.rmit.edu.au/careers>

We want to attract those who will make a difference. View RMIT's impressive standings in university rankings.

<https://www.rmit.edu.au/about/facts-figures/reputation-and-rankings>

## College/Portfolio/Group

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### About the STEM College

STEM College is a community of exceptional STEM researchers, teachers, inventors, designers, and game-changers, supported by talented professional staff. We offer higher education programs across all STEM disciplines at the Bachelor, Master and PhD levels, and ensure our students experience an education that is work-aligned and life-changing.

Further information on STEM College in this link: <https://www.rmit.edu.au/about/schools-colleges/stem-college>

### School of Science

The School of Science provides more than 45 bachelor and postgraduate programs to 5,000 students and undertakes world-class research across the disciplines of:

- biosciences and food technology
- applied chemistry and environmental science
- physics
- mathematical sciences
- geospatial sciences

## Position Summary

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The Research Assistant will undertake research activities in line with the University's research strategy. It is expected that the Research Assistant will work with an increasing degree of autonomy as skills and experience develop.

This position is for a Research Assistant to work as a member of an international collaboration on diamond materials for laser threshold magnetometry. It is also anticipated that the successful applicant will need to undertake international travel, including to some of our partners in the US, Japan, and Germany. This position will require demonstrated expertise on the optical characterization of materials, ideally laser or diamond materials, or a commensurate skill set that can be applied to these tasks. The successful candidate will be working in a team environment and expected to complement the existing research efforts. The Research Assistant will prepare publications and project reports in collaboration with other team members.

## Reporting Line

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Reports to: Professor Brant Gibson

## Organisational Accountabilities

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RMIT University is committed to the health, safety and wellbeing of its staff. RMIT and its staff must comply with a range of statutory requirements, including equal opportunity, occupational health and safety, privacy and trade practice. RMIT also expects staff to comply with its policy and procedures, which relate to statutory requirements and our ways of working.

RMIT is committed to providing a safe environment for children and young people in our community. Read about our commitment and child safe practices. <https://www.rmit.edu.au/about/our-locations-and-facilities/facilities/safety-security/child-safety>

Appointees are accountable for completing training on these matters and ensuring their knowledge and the knowledge of their staff is up to date.

**Key Accountabilities**

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1. Perform characterisation of diamond materials to evaluate their suitability for laser threshold magnetometry applications
2. To collaborate with national and international partners, including participating in site visits, teleconferences, and written reports
3. Generate publications in high quality journals and deliver conferences presentations
4. Apply for research funding in accordance to the strategic development of the research program
5. Participate in the execution of day to day research projects, including supervision of postgraduate students
6. Organise, attend and/or support meetings, forums and seminars, as well as being involved in other related meetings in the field as required
7. Liaise with external organizations and build up new collaboration opportunities.
8. Undertake limited undergraduate and postgraduate coursework teaching activities proportionate to 10% of the position, in accordance with the College’s Academic Workload Framework

**Key Selection Criteria**

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1. Expertise applicable to the optical characterisation of diamond and/or laser gain materials.
2. Sound publication track record commensurate with experience
3. Ability to work as a member of a research program involving a small team.
4. Demonstrated good interpersonal skills enabling successful interaction with staff and students at all levels and non-RMIT personnel from a wide range of backgrounds.
5. High level conceptual, analytical and problem-solving skills.
6. Demonstrated high level of communication skills.

**Qualifications**

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**Mandatory:** Qualification in the relevant discipline area preferably at postgraduate level.

Note: Appointment to this position is subject to passing a Working with Children Check and other checks as required by the specific role. Maintaining a valid Working With Children Check is a condition of employment at RMIT.

<b>Endorsed:</b>	Signature: Name: Title: Date:	<b>Approved:</b>	Signature: Name: Title: Date:
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