# Postgraduate Top-Up Scholarships

Role summary for potential applicants

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| Advertised Job Title**:** | CSIRO Postgraduate Scholarships - **Energy** |
| Reference Number**:** | 47425 |
| Scholarship: | AU$7,000 per year as a top up scholarship (stipend), plus a generous operating budget of up to $10,000 per annum |
| Location**:** | Various locations across Australia |
| Length of Engagement: | (Up to) 3 year term (concordant with existing RTP or scholarship) |
| Applications are open to: | Australian Citizens Only  Australian Citizens and Permanent Residents Only   * All Candidates |
| Research Areas**:** | Various – please see the list at the end of this document |
| How to Apply: | *Before you apply please read the information in this document about these scholarships and the research projects on offer. There is additional information on our* [*Postgraduate scholarships*](http://www.csiro.au/en/Careers/Student-and-graduate-programs/Postgraduate-scholarships) *page at CSIRO Careers.*  To apply, please prepare **ONE** document which includes all of the following:   1. your **CV/resume**; 2. the names and contact details of two previous supervisors or academic/ professional referees; 3. the reasons why the research area(s) you have selected is of interest to you; 4. how your previous skills/knowledge and experience meet the requirements; and 5. an outline of your longer-term career aspirations and detail how this program will help you achieve them.   After preparing the above document please return to the advertisement and complete the following steps to apply:   1. click on the ‘***Apply Now***’ button to either create a Candidate Profile or to login to your current account. Enter your personal details and then click *‘****Next***’ to move to the application form 2. complete the form and upload the **one document** you prepared as requested above in the field labelled ‘***Resume and cover letter***’ 3. complete the ***Preferences*** section by selecting your **2 preferred research areas** from the list below in order of preference in the *Preference 1* and *Preference 2* fields (e.g. ***Energy 1; Energy 2***; etc); and 4. upload your **academic results** in the ‘***Requested Information***‘ field.   If you experience difficulties applying online call 1300 984 220 and someone will be able to assist you. Outside business hours please email: [csiro-careers@csiro.au](mailto:csiro-careers@csiro.au).  *Please do not email your application. Applications received via this method may not be considered.* |
| About CSIRO**:** | At the Commonwealth Scientific and Industrial Research Organisation (CSIRO), we shape the future. We do this by using science and technology to solve real issues. Our solutions make a difference to industry, people and the planet.  We’ve been pushing the edge of what’s possible for almost 90 years. Today we have thousands of talented people working across Australia and internationally. Our people work closely with industry and communities to leave a lasting legacy. Collectively, our innovation and excellence places us in the top ten applied research agencies in the world.  CSIRO. We imagine. We collaborate. We innovate. |

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| **Role Overview:** |
| CSIRO’s Postgraduate Scholarship Program provides enhanced opportunities in science and engineering for outstanding graduates enrolling each year at Australian tertiary institutions as full-time postgraduates for research leading to the award of a PhD. Top-up Scholarships (or in some circumstances full scholarships) are being offered in 46 priority research areas.  Top-up scholarships will be the norm and are available to PhD students who have gained (or expect to gain) a Research Training Program (RTP) or equivalent scholarship.  At the time of submitting an application for a CSIRO PhD Scholarship, students must have, or expect to gain, first class honours or equivalent in a relevant research area. Students must also expect to receive a Research Training Program (RTP) or university equivalent commencing in that year. Exceptional students who, for a justifiable reason, do not have an APA may be considered for a full scholarship.  Joint supervision of students by a university and a CSIRO supervisor is required and such joint supervisory arrangements must be consistent with the Higher Degree by Research Regulations of the host university. The primary supervisor may be either the university or CSIRO supervisor.  Recipients of CSIRO Postgraduate Studentships are generally required to be Australian citizens or have permanent residency status. However, in fields in which there is a national skill shortage, studentships may be awarded to overseas candidates provided they are prepared to seek permanent residency as soon as possible within Australian Government policy guidelines. International students must be able to show evidence of admission to an Australian university, as well as evidence that either their living costs or international student tuition fees are being covered by another scholarship or from private funds.  CSIRO Postgraduate Scholarships are being offered in the priority research topic areas at various locations. Details of research areas and contact details are available in the **pages below**. |

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| **Selection Criteria:** |
| ***The criteria on which the applications will be assessed are:***   1. **Quality and relevance of student project:** The primary assessment criterion for a CSIRO Postgraduate Scholarship is the quality and relevance of the project being proposed. The research must be aligned with, the advertised priority research area. 2. **Academic calibre of the student:** The quality of the student is also critical to the assessment of a scholarship and candidates must hold (or expect to gain) a relevant first class honours (or equivalent) degree from a recognised University. 3. **Availability of appropriate university supervision:** The relevance of the University supervisor’s research background and their willingness to supervise the student in collaboration with the CSIRO supervisor should also be made clear.   As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to Excellent science, Inclusion, trust & respect, Health, safety & environment and Deliver on commitments. In your application and at interview you will need to demonstrate alignment with these behaviours. |

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| **Research Area No.** | **Energy - Postgraduate Scholarships Research Areas:** |
| **Energy 1** | **Project Title**  Semi-transparent perovskite semiconductors for high efficiency tandem photovoltaic cells  **Project Description**  CSIRO is developing tandem perovskite solar cells with a focus on optimising transparent conducting oxide (TCO) interlayers, top-cell electrodes and tunnelling junctions in the device stack. Projects in support of this area, including tools and methods of studying tandem cell technologies will be considered.  **Contact:** Greg Wilson on (02) 4960 6017 or email [Greg.Wilson@csiro.au](mailto:Greg.Wilson@csiro.au) |
| **Energy 2** | **Project Title**  CO2: From waste to worth  **Project Description**  Design and development of physical, chemical and biological processes and concepts that result in valuable (by-)products from CO2 including synergistic integration with CO2-separation processes.  **Contact:** Paul Feron on (02) 4960 6022 or email [Paul.Feron@csiro.au](mailto:Paul.Feron@csiro.au) |
| **Energy 3** | **Project Title**  Connecting the dots - hydrocarbon migration pathways  **Project Description**  Understanding the migration of hydrocarbons from the deep subsurface requires linkage of multiple complex processes to explain their occurrence at surface levels.  **Contact:** Kaydy Pinetown on (02) 4960 8892 or email [Kaydy.Pinetown@csiro.au](mailto:Kaydy.Pinetown@csiro.au) |
| **Energy 4** | **Project Title**  Simultaneous capture and utilisation of multi-pollutants from flue gas  **Project Description**  Develop advanced materials and processes which allow removal of multiple pollutants from industrial flue gases in a single process, and generate value added products simultaneously.  Utilization of CO2 and clean production of hydrogen and ammonia is also our research priories and candidates in these research areas can be considered.  **Contact:** Hai Yu on (02) 4960 6201 or email [Hai.Yu@csiro.au](mailto:Hai.Yu@csiro.au) |