

Residential Student Scholarship - 2019

CONDITIONS

AINSE Limited is offering top-up Residential Postgraduate Scholarships to high quality students who are enrolled in a PhD at an AINSE Member university. Students whose project topics that closely align with ANSTO's research programmes are encouraged to apply. Expressions of interest **will be received up to 31 May 2019. Late submissions will not be considered. Selected students will be asked to proceed to the next stage of the application process.**

1 Form of Award

The AINSE scholarship is in the form of "supplements" and are offered to scholars who are, or will be, in receipt of an Australian Postgraduate Award (APA) / Research Training Program (RTP) or equivalent award, and for as long as that Award is current subject to satisfactory progress.

2 Qualifications for Candidature

Applicants must be persons who have completed, or who expect to complete within six months of nomination, the requirements for the degree of BE or BSc(Hons) or equivalent, at a recognised university, and who are enrolled, or expect to enrol within six months, as a candidate for a higher research degree at a member university of AINSE.

3 Location

The AINSE scholarship will be held at the nominating university, however the student will be required to spend a significant period of not less than, on average, 6 months per year (can be a block or time or separate visitation), attached to ANSTO, for the purpose of receiving training, working with researchers and using these facilities in connection with the approved research project.

4 Project

The research project shall be proposed by the nominating university and shall be directly concerned with **ANSTO's research Programmes: The Environment; Human Health; Nuclear Fuel Cycle, Defence Industry and Fusion**. The project will usually require the use of the special facilities at the Australian Nuclear Science and Technology Organisation (ANSTO). The student project topic should closely align with the ANSTO's Research Programme(s):

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\$7,500 stipend per annum

Up to \$5,000 travel and accommodation allowance per annum

Strategic PhD opportunities

Residential scholarships offered to students holding a RTP or equivalent and whose PhD project topic closely aligns with any of the strategic focus areas for ANSTO's research programmes:

The Environment:

- The use of nuclear techniques in Environmental Change (Climate Change, Landscape processes or Human Impacts) [Info: Dr Tom Cresswell - tom.cresswell@ansto.gov.au]
- The use of nuclear techniques in Sustainable Water Resources (Aquatic Ecosystems, Groundwater and Natural Variability) [Info: Dr Cath Hughes – cath.hughes@ansto.gov.au]
- The use of nuclear techniques in Contaminant Science (Atmospheric pollution/transport, radionuclides in the biosphere and contaminated sites) [Info: Dr Karina Meredith - karina.meredith@ansto.gov.au]

Human Health:

- Impact of low to therapeutic dose radiation on biological systems relating to mitochondrial response, gut microbiome and bio-sensors [Info: Dr Ryan Middleton - rym@ansto.gov.au]
- Advancing nuclear technology to deliver better health: enhanced performance radiotracers, total-body PET imaging, multi-modal imaging, heavy ion/proton therapy dose quantification) [Info: Dr Keith Bambery – keithb@ansto.gov.au]
- Nuclear and isotopic techniques to improve food quality and design to contribute to better health (food structure and function, authenticity, manipulation of food and the influence on the immune system) [Info: Dr Elliot Gilbert – epg@ansto.gov.au; Dr Frederic Sierro – frederis@ansto.gov.au]

Nuclear Fuel Cycle:

- Nuclear fuel resources (processing of U and Th; atomistic simulation of fuel properties; fuel-cladding interaction) [Info: Dr Greg Lumpkin – grl@ansto.gov.au]
- Nuclear reactor systems (safety of reactor systems; behaviour of nuclear materials under extreme conditions) [Info: Dr Gordon Thorogood – gjt@ansto.gov.au]
- Spent nuclear fuel management (solutions for long term storage of nuclear waste to ensure safety, security and non-proliferation) [Info: Dr Jessica Veliscek Carolan – jvc@ansto.gov.au]

In addition, opportunities exist for postgraduate students interested in contracted research and industrial engagement projects in the defence industry area. These projects aim to deliver real solutions to enhance Australia's defence capability via collaborative partnerships. [Info: AINSE Administration – ainse@ainse.edu.au]

Opportunities may also exist for postgraduate students interested in fusion research that aligns with ANSTO and ITER activities following the signing of the cooperation agreement. This agreement is to join a consortium of countries that will lend expertise on the ground-breaking ITER fusion project in southern France. [Info: Dr Richard Garrett – richard.garrett@ansto.gov.au]

It is expected that the university will appoint a suitably qualified member of staff from ANSTO as a co-supervisor of the project. The co-supervisor shall be responsible for ensuring that the ANSTO facilities and services required for the project can be made available in the year of the Award. Access to facilities is not guaranteed: equipment failure or other difficulties may arise which prevent the execution of the grant. AINSE does not accept any responsibility for the consequences of equipment becoming unavailable. The objective of the project shall not be changed without the written approval of AINSE.

5 Tenure

- i Total duration of the AINSE scholarship is at AINSE's discretion, and is subject to annual review. It is expected that the experimental component of the research program requiring access to ANSTO facilities will be completed within three years of post-graduate study.
- ii An Award is expected to commence during the first year of a PhD research program. The commencement date for tenure of the AINSE scholarship shall be advised by AINSE. The AINSE scholarship will expire at the same time as the APA / RTP or equivalent award. If the APA / RTP is suspended for a period for whatever reason the AINSE Scholarship will be suspended for the same period of time.
- iii The AINSE scholarship will normally be extended to conclude at the end of a three-year PhD research program.
- iv Only in special circumstances, such as the unavailability of ANSTO facilities needed for the experimental component of the research program, will extension of the AINSE scholarship be considered.
- v Tenure of the AINSE Scholarship is conditional upon the student meeting the requirements of the governing authorities at ANSTO in connection with the use of ANSTO facilities.

- vi AINSE may terminate an Award at any time if it is not satisfied with the progress or conduct of a student, or for any other reason. Tenure will terminate in any case on the date on which the student submits to his/her university a thesis on their research.

6 Stipend

The stipend during tenure of the award will be at rates announced by AINSE. The rate applicable from 1 January 2019 will be \$7,500 pa. The amount of the stipend will be reduced in cases where the student is in receipt of scholarship(s) top-up stipends whose total value is greater than 75% of the APA / RTP stipend. In some cases an Award may be made without stipend. Responsibility for establishing taxation liability lies with the Award recipient.

7 Payment of Stipend

The stipend will be paid to the University once a year with effect from the commencement date or anniversary of that date. Should the student relinquish the Award for any reason or the University cease to be a member of AINSE, the University will be required to refund the remaining stipend to AINSE calculated on a pro-rata basis.

8 Award for Facility Use and Supervision

The award holder will be required to apply directly to the ANSTO portal for their facility access once their specific equipment use requirements are established through the research program.

9. Award for Travel and Accommodation

- i AINSE will provide a credit towards the travel and accommodation expenses associated with an attachment or visit to ANSTO Facilities during the year of the Award. The mode of travel will be left to the student's discretion but the travel component of the Award will be calculated on the basis of the most economical means of transport between the student's university and ANSTO Facilities.

Since the cost of travel and/or accommodation may change during the year, the AINSE award shall be regarded as a contribution towards these expenses, and shall not be adjusted to reflect the actual expenses incurred. The travel and accommodation criteria will be set by AINSE.

- ii The accommodation and travel component of the Award for the AINSE Scholarship can be used from these funds as determined by AINSE.

10. Administrative Arrangements

- i AINSE research students are to make arrangements to use facilities and services (including obtaining a security clearance) at ANSTO directly with the ANSTO co-supervisor. These should be made well in advance to avoid the possibility of time not being available to provide the required access to facilities or services within the period of the Award.
- ii When arrangements for the facility use have been finalised, a request for accommodation should be made at this time through AINSE. This must be done at least three weeks in advance of the visit. The student will need to fill in a [Visit Request Form](#) and send it by e-mail to ainse@ainse.edu.au giving the preferred dates and times of arrival and departure.
- iii ANSTO co-supervisors must provide their administrative officers with details of the visit entered on an "AINSE Award Authorisation Form".
- iv ANSTO co-supervisors will be responsible for visiting students whilst they are at ANSTO Facilities. Students visiting ANSTO must arrange (through their universities) their own insurance against injury and / or damage to themselves or third parties (personal and property).
- v For interstate guests that wish to use motel facilities, AINSE will pay the Lucas Heights Motel directly on behalf of the student.
- vi The expenses that AINSE will approve from credits awarded for travel and accommodation are limited to those involved in visits to ANSTO facilities ONLY or in other special cases (approved by AINSE Managing Director and ANSTO Head of Research) in which AINSE's written approval has been obtained prior to the journey. Reimbursement for travel costs incurred by the student will be met directly by AINSE, up to the limit of credit awarded for that purpose, on receipt of an appropriate tax invoice from the student's university. Original tax invoices will be required for

auditing purposes. University tax invoices must identify the AINSE Scholarship Award holder and be marked for the attention of the Accounts Officer, AINSE.

- vii Before the 31 December in the year of the award (or the extension of the award), the ANSTO administrative officer will request the student to sign an award authorisation. This is to record the usage granted to the student for reporting purposes.
- viii For Applicants seeking to use Australian Synchrotron Facilities: Students will only be eligible for application in the 2019 RSS round if they can demonstrate a tangible, promising, realistic plan to access merit-based beamtime at the Australian Synchrotron. Options are: (a) recent successful beamtime application with beamtime scheduled in the forthcoming months, (b) beamtime applications submitted and presently in review, or (c) an undertaking to submit beamtime applications. Please see the [Australian Synchrotron websites](#) for access guidelines.

11 Variations on Award for Travel and Accommodation

Wherever possible, the student's research program should be planned to include extended visits to The ANSTO Facilities. Should special requirements of the research project make this impractical, the student should write to the Managing Director, AINSE Ltd, as soon as possible after notification of the Award, giving details of the proposed program so that the travel and accommodation Award can be varied accordingly.

12. Reports

A report on the progress of the project on a form provided for that purpose, and signed by the student's university supervisor **and** ANSTO co-supervisor must be submitted each year to AINSE by 31 March at the request of AINSE. The student will continue to report each year until the thesis has been submitted. It is expected that a professionally bound copy of the thesis will be presented to AINSE upon completion of its examination.

13 Publications

It is expected that appropriate acknowledgment to AINSE and ANSTO will be made by the student or ex-holder of an AINSE Scholarship when any material embodying the results of work undertaken during tenure of the Award is submitted for publication. No material resulting from work carried out at ANSTO should be submitted for publication without the approval of the university supervisor and the ANSTO co-supervisor. It is expected that the references of any such publications will be sent to AINSE. Wording for inclusion in Acknowledgements of publications should include *"The authors would like to thank AINSE Limited for providing financial assistance (Award – Residential Student Scholarship 2019) to enable work on"*

14 Intellectual Property Rights

As a general rule, intellectual property rights in the results of an AINSE Scholarship involving ANSTO personnel shall be the joint property of the university accepting the award and ANSTO, however such rights may, in all cases, be subject to negotiation between those parties. Where it is anticipated that intellectual property rights of commercial value will be generated by a project which is the subject of an AINSE Award, applicants are advised to consult their legal representatives. Intellectual property rights which exist, or may exist, in any AINSE Award project must be identified and steps taken to ensure that whatever protection is required is put into place before disclosure of the subject matter is made to any outside parties.