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Introduction

The Canberra campus of The University of New South Wales (UNSW) is located at the Australian Defence Force Academy. Postgraduate programs at UNSW Canberra are accessible by all members of the community, providing they meet the entry requirements.

The Academy was opened in 1986 and operates under an Agreement between The University of New South Wales and the Commonwealth of Australia. The Academy provides tertiary education and military training for the Australian Defence Force (ADF).

At the Academy, The University of New South Wales is responsible for conducting academic programs and research. In addition to educating undergraduate students for the Australian Defence Force, UNSW Canberra has a range of postgraduate programs open to the general community as well as Defence personnel. Applications for these programs may be made by Australian citizens/permanent residents, New Zealand citizens and international students who are eligible to apply for a valid student visa.

In 2013 the total number of students enrolled at UNSW Canberra campus was approximately 2,685. Of these some 1,027 were undergraduate students, 1,280 were postgraduate coursework students, 330 were higher degree research students and the remaining were non-award students.

UNSW Canberra is part of a significant research institution, and offers a supportive and stimulating environment for postgraduate research and coursework study. Coursework or research students studying at UNSW Canberra, gain all the advantages of studying with one of Australia’s largest, well-established and research intensive tertiary institutions. The University of New South Wales is a member of Australia’s Group of Eight institutions and a member of Universitas 21.

Advantages of studying as a postgraduate student at UNSW Canberra:

- All degrees are awarded by the University of New South Wales.
- UNSW Canberra is smaller than most Australian academic institutions with small classes, making it easy to access staff and facilities.
- The best university teacher-to-student ratio in the country
- UNSW Canberra has an excellent research record with a number of internationally recognised academics.
- Most programs may be commenced either at the beginning or in the middle of the year.
- The campus has a large and comprehensive library and state of the art computing facilities.
Welcome

Message from the Rector of UNSW Canberra at ADFA

Welcome to the Research Study booklet offered by the University of New South Wales Canberra campus located at the Australian Defence Force Academy. This booklet will provide you with the information you need to make the right choice about your postgraduate research education at UNSW Canberra.

The long-term relationship between The University of New South Wales and the Department of Defence shows that many of our postgraduate programs have a Defence orientation. However, all our research and teaching is undertaken in the context of a balanced and liberal education and our programs attract an interesting cross-section of Defence and non-Defence students.

We offer a broad range of research programs in a small but well-respected institution, with ready access to academic staff and resources including a world class library. Students have the opportunity to develop academically on a beautiful campus, coupling the advantages of academic rigor with a vibrant community environment.

Working closely with organisations from both the private and public sectors, our internationally recognised academic staff are active in pursuing original quality research and building our high research profile. Their research activities ensure that the teaching programs gain strength, vitality and currency and remain relevant in a rapidly changing environment.

I hope you will take the time to consider the benefits of studying at UNSW Canberra and to view our other information resources, such as our website. Please contact our staff if you require any further assistance.

Professor Michael Frater
Rector, UNSW Canberra
UNSW Canberra is the only national academic institution with an integrated defence focus. Research is conducted across a range of disciplines including, language, culture, business, science, engineering and technology.
Research at UNSW Canberra

UNSW Canberra is a significant research institution which offers a supportive and stimulating environment for postgraduate research. It has a wide range of postgraduate research programs open to eligible students and particularly welcomes international students. Academic staff work closely with industry, commerce and public research bodies in Australia and overseas to ensure that programs remain current and relevant.

Research degrees require the preparation and submission of a thesis embodying the results of an original investigation or design or, in the case of the Masters by research, a combination of research and coursework or research only. Research programs are available at PhD and Masters level with provision, under certain circumstances, for transfer between the two.

In 2013, UNSW Canberra had more than 400 staff and students on campus engaged in research: 170 academic staff, supported by 30 specialist research staff and some 330 research students. Research at UNSW Canberra is recognised by its publications output and the significant external research funding attracted each year.

Research degree programs can be undertaken in all four Schools. Information about School research interests and possible supervisors is available from individual School web pages and the UNSW postgraduate webpage:

www.grs.unsw.edu.au/futurestudents/find

Awards

**Doctor of Philosophy (PhD)**
typical duration 3 - 4 years
*All disciplines*

**Doctor of Information Technology (DIT)**
typical duration 3 - 4 years

**Doctor of Project Management (DProjMgt)**
typical duration 3 - 4 years

**Doctor of Systems Engineering (DSysEng)**
typical duration 3 - 4 years

**Master of Philosophy (MPhil)**
typical duration 1.5 - 2 years
*All disciplines*

**Master of Engineering (ME)**
typical duration 1.5 - 2 years
- Aerospace Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

**Master of Science (MSc)**
typical duration 1.5 - 2 years
- Chemistry
- Computer Science
- Geography
- Mathematics
- Oceanography
- Physics

**Master of Arts (MA)**
typical duration 1.5 - 2 years
- English
- History
- Indonesian Studies
- Politics
Eligibility

To be eligible for admission to a program of postgraduate research study, an applicant is normally required to have completed an appropriate undergraduate degree from a recognised institution. In certain programs other qualifications or relevant professional experience are considered in determining the level of entry. Candidates who do not meet the direct entry requirements at the Masters by Research or PhD level may be able to undertake a fee liable qualifying program. In some schools, research students enter at Masters level and may be transferred after 12 months’ progress if their research is of the required standard and the topic appropriate.

Programs

Doctor of Philosophy (PhD)

Typical duration: 3-4 years full-time equivalent

The Doctoral degree is formal recognition of successful research experience. The candidate must make a distinct and original contribution to knowledge. Considerably more original work is required for a Doctorate than for a Masters by research degree. The nature and level of supervision will evolve over the duration of the candidature. The work will be more closely supervised in the early stages. In the later stages, however, the candidate must be allowed increasing scope to exercise initiatives and demonstrate originality.

In the latter part of the program the candidate should be able to work alone and be guided rather than directed by the supervisor. The degree of Doctor of Philosophy requires a minimum of three years full-time study and preparation of a thesis.

PROFESSIONAL DOCTORATES

Doctor of Information Technology (DIT)

Typical duration: 3-4 years full-time equivalent

The DIT degree provides an opportunity to combine a doctoral thesis with the coursework component of the Master of Information Technology. It allows research into an area of interest developed within the coursework component leading to a significant contribution to professional practice in information technology.

The degree consists of one third coursework, which is equivalent to two semesters full-time, and two thirds research, equivalent to four semesters full-time. The research component may be taken in an area encountered by the student while undertaking coursework. The coursework component of the degree begins with enrolment in the Master of Information Technology. All coursework must be completed before the commencement of the dissertation.

Entry into the DIT requires a Bachelor with Honours degree or a Master by coursework from a recognised institution, or equivalent qualification. In addition, a candidate shall have a minimum of three years of relevant professional experience.

Doctor of Project Management (DProjMgt) (1742)

Typical duration: 3-4 years full-time equivalent

The Doctor of Project Management degree provides an opportunity to combine a doctoral thesis with the coursework component of a Master of Project Management degree. The degree consists of one-third coursework (equivalent to one year full-time) and two-thirds research (equivalent to two years full-time) which may be in an area encountered by the student while undertaking coursework.

The program is intended to prepare candidates for the highest level of professional practice, in which they can contribute significantly to the development of the discipline of Project Management. High-level professional practice in the field of project management involves the continuous improvement of the associated body of knowledge in order to manage the ever-increasing complexity of systems and projects. This extension requires significant experience and a mastery of the professional body of knowledge, underpinned by strong research skills.

Current and Emerging Research Themes

– advanced diagnostics
– advanced materials science
– air traffic management
– applied ethics and leadership
– astrophysics and optics
– australian literature
– complex adaptive systems
– control theory
– cyber security
– defence and security applications
– decision making analysis
– environmental modelling and engineering
– geographic information systems
– human resource management and employment relations
– hypersonics
– image and video processing
– impact and dynamics
– institution building in fragile states
– intelligent systems
– international and non-traditional security
– leadership and management
– management of performance enhancement in sport
– military history
– photonic quantum information technologies
– physical oceanography
– public policy and public management
– space engineering
– strategic and international studies
– uninhabited aerial vehicles
In this program, mastery of the professional body of knowledge is achieved in the coursework component, which builds on prior education and the experience gained through professional practice. Based on this mastery of the professional body of knowledge, the thesis component of the program develops the research skills necessary for an experienced practitioner to be able to make a significant contribution to the continuous improvement of their discipline’s professional practice.

Doctor of Systems Engineering (DSysEng) (1741)

Typical duration: 3-4 years full-time equivalent

The Doctor of Systems Engineering degree provides an opportunity to combine a doctoral thesis with the coursework component of a Master of Systems Engineering degree. The degree consists of one-third coursework (equivalent to one year full-time) and two-thirds research (equivalent to two years full-time) which may be in an area encountered by the student while undertaking coursework.

The program is intended to prepare candidates for the highest level of professional practice, in which they can contribute significantly to the development of the discipline of Systems Engineering. High level professional practice in the field of systems engineering involves the continuous improvement of the associated body of knowledge in order to manage the ever-increasing complexity of systems and projects. This extension requires significant experience and a mastery of the professional body of knowledge, underpinned by strong research skills.

In this program, mastery of the professional body of knowledge is achieved in the coursework component, which builds on prior education and the experience gained through professional practice. Based on this mastery of the professional body of knowledge, the thesis component of the program develops the research skills necessary for an experienced practitioner to be able to make a significant contribution to the continuous improvement of their discipline’s professional practice.

MASTERS BY RESEARCH

Master of Arts (MA) (2406)

typical duration: 1.5-2 years full-time equivalent

Master of Engineering (ME)

typical duration: 1.5-2 years full-time equivalent

Master of Science (MSc)

typical duration: 1.5-2 years full-time equivalent

These programs are designed primarily as training in a program of advanced study and research. The candidate learns the fundamentals of research and acquires new knowledge. The program may include formal coursework which is normally intended to prepare the candidate for work on the thesis. The candidate must undertake an original investigation but this would normally be more limited in scope and degree of originality than is required for a doctorate. Although originality is to be encouraged as much as possible, the work will be closely supervised in the early literature review stage and whenever analysis and critical thinking is being used.

Master of Philosophy (MPhil)

Typical duration: 1.5-2 years full-time equivalent

The Master of Philosophy is a research degree with an examinable coursework component, with a minimum of three semesters of full-time equivalent study. It comprises a thesis that embodies the result of an original investigation, design or engineering development and a program of advanced coursework that makes up the remainder of the program. The coursework component will normally comprise of four courses selected from the Coursework Masters offerings for the relevant discipline.

If candidates have already completed a coursework Masters in a related area they may be eligible to apply for credit for the coursework component. This could mean that candidates would only need to submit a research thesis, in which case candidates could complete the M Phil in 12 months full-time study or the part-time equivalent.
Before enrolment you should submit an intended program for approval by the School controlling the research discipline for the degree. The School will ensure that the coursework component is relevant to, or complements, the research component, and that the candidate satisfies pre-requisite requirements for the study.

Scholarships

A range of scholarships is available to support research degree candidates which cover fees and a stipend. A ‘stipend’ is paid in the form of a living allowance and cannot be converted to fee payment other than by personal savings. Further information about these and other scholarships are available from:
sas.unsw.adfa.edu.au/rsu/scholarships

Australian Postgraduate Award (APA) (Stipend based)
The APA is available to Australian citizens or to Permanent Residents who have lived continuously in Australia during the 12 months preceding the application closing date. Scholarships are awarded on the basis of academic excellence and research potential and are awarded for full-time research study. Applications generally close in April and In October each year. Applicants for APA are automatically considered for UCPRS.

International Postgraduate Research Scholarship (IPRS)
International students (except New Zealand citizens) are eligible to apply for this scholarship which provides cost of tuition fees, visa processing charges, and Overseas Student Health Cover for the student and their dependents. In addition students are provided a living allowance for each year of the IPRS. Scholarships are awarded for three years to undertake a PhD and two years to undertake a Masters degree, subject to satisfactory progress. Applications close in April and August each year. Applicants for IPRS are automatically considered for UCPRS.

University College Postgraduate Research Scholarship (UCPRS) (Stipend based)
These scholarships are awarded on the basis of academic excellence and are for full-time research study. Scholarships are for three years for a PhD and two years for a Masters degree, subject to satisfactory progress. There is no application process for UCPRS. Applicants wishing to study at UNSW Canberra and who apply for a UNSW International Scholarship or UNSW Local Research Scholarship are automatically considered for this scholarship. International students that are offered a UCPRS are supported by a Tuition Fee Scholarship provided by Schools to cover tuition fees.

Equity Scholarship (Stipend based)
These scholarships are awarded to female students in a non-traditional area of study at the UCPRS rate. Applicants for APA, IPRS or UCPRS are automatically considered for this scholarship.

Top-up Scholarship
This scholarship is available to all students who are awarded an Australia Postgraduate Award (APA) or International Postgraduate Research Scholarship (IPRS) tenable at UNSW Canberra. UNSW Canberra supplements the APA and IPRS level by an additional amount to bring these scholarships to the current year level of the UCPRS.

Establishment Scholarships for Commencing Research Scholarship Students
An Establishment Scholarship of $1,000 will be provided to commencing higher degree research scholarship students at the beginning of their candidature at UNSW Canberra.

Australian Development Scholarship (ADS)
The award may be available to postgraduate students. Only students from certain countries can apply.

The conditions governing the scheme are developed by the home country and the Australian Government. Eligibility for ADS is determined by a number of factors, including the level and field of study. The type of assistance available also varies from country to country. The award for some students will only cover the cost of fees; however, others cover the cost of fees, the cost of the airfare to Australia and a living allowance. Applications and further information may be obtained from the Australian Diplomatic Mission or the Australian Education Centre in your home country.
“At UNSW Canberra I was able to research in a field I really loved with a supervisor who helped inspire my research passion”

- Dan He
Dan He, PhD Candidate and ACT Government International Student Ambassador
Professor Michael O’Donnell
Head of School

Michael O’Donnell is Professor of Human Resource Management in the School of Business. Michael’s research interests include human resource practices and employment relations in the public sector, executive remuneration in the private sector and international employment relations. Michael has acted as chief investigator on large ARC funded projects exploring management strategy and employment relation in the Australian and United Kingdom public sectors and executive remuneration and corporate governance in Australian listed companies. See Michael’s video on Youtube.

Major Research Groups

FRAGILE STATES PROJECT (FSP)

Australia is surrounded by fragile states – i.e. those with weak governments and pervasive poverty where the potential for a breakdown in law and order are ubiquitous. Australia also has a long and proud history of providing assistance in supporting peacekeeping and peace-building operations. Our research draws on the experiences of rebuilding fragile states to develop lessons for our future teaching curriculum.

GOVERNANCE, CHANGE AND COMPLEXITY

How should governments respond to situations of rapid change and growing complexity? The concept of governance, which deals with the exercise of collective power across boundaries, helps us to generate new approaches to the understanding of this challenge. Research in this space is both practically-oriented and theoretically informed, and covers Public Policy, Human Resource Management, and Leadership, Management and Cognition.

MANAGING OPERATIONS, KNOWLEDGE & INNOVATION (MOKI)

Managing Operations, Knowledge & Innovation (MOKI) encompasses diverse research activities linked by a common interest in how people manage skills and knowledge so as to achieve desired goals and objectives within the constraints of available resources. MOKI research activities share a common approach based on reflective practice, theory development, theory testing and application of theory to real problems.

DECISION MAKING ANALYSIS/ MANAGEMENT OF PERFORMANCE ENHANCEMENT

Additional research activity at the School of Business includes Decision Making Analysis, and Management of Performance Enhancement.

Some of our School’s research staff are recognised as the finest in their fields and have been published by high-ranking journals and by the most respected publishing houses. Several have been invited to make keynote addresses to conferences and to edit or sit on the editorial boards of various journals.

The School of Business staff have received ARC Discovery grant* and been named an investigator in European Commission grant**.

We edit and publish the Labour and Management in Development Journal which carries research articles on applied economics and social, political, legal and environmental issues as they apply to nations undergoing accelerated economic development.

Our School is a partner in the Australian Centre for the Study of Armed Conflict & Society (ACSACS), a multi-disciplinary research and teaching Centre recently established on the UNSW Canberra campus. ACSACS promotes academic scholarship in military history, applied ethics, international law, fragile states, peacekeeping and nation building.

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*SBus Professor Michael O’Donnell was awarded a $174,000 Discovery grant in 2010, titled “Pay alignment: Fact or Fallacy?”.

**Dr Stefan Markowski, SBus Associate Professor, is an investigator in a $2,274,000 grant program for 2011-2013 awarded by the European commission, titled “Creating an Observatory of Migration East of Europe.” The program is based at the European University Institute in Florence, Italy and the Centre of Migration Research, University of Warsaw in Poland and funded a grant from the European Commission. Dr Markowski is team leader of the economic and demographic project module based at the Centre of Migration Research.
SBUS research in this Centre makes major contributions to projects directed toward “Building the Business Case for Rebuilding Fragile States: and “Analysing the DNA of Post-Conflict Peace”. Researchers are examining case studies including Bougainville, Sri Lanka, Fiji, the Solomon Islands and Pakistan.

We host a strong Research Seminar program, delivering 19 presentations in 2012 from School academic staff and visitors as well as distinguished experts from overseas such as Professor Patrick Gunnigle, University of Limerick and Professor Gunnar Eliasson, Royal Institute of Technology, Stockholm. A diversity of topics have included Challenges to Technology Management (Global Warming), Government Policy (Childhood Development); Performance Enhancing Drug Use (Australian Universities, ADF), Arranged Marriages in Australia; Technological Evolution; Pay Equity; Defence Procurement; Eye Tracking and Financial Reporting; Collective Workplace for Gender Equality; Impact of Global Financial Crisis on HRM and Industrial Relations, and Military Leadership among others.

We have also support the Asia-Pacific Series, providing several seminars in their program in the past few years.

**Prospective HDR Students in Business**

The School adopts an interdisciplinary approach to the study of business issues in a changing and uncertain world. We cover a broad range of research areas that includes economic development in fragile states, leadership, public sector management, project management, marketing, entrepreneurship and human resource management.

Our higher degrees by research (PhD and MPhil) reflect the research strengths and capabilities of academic staff in the School of Business, many of whom are at the forefront of their discipline areas.

Only experienced supervisors are appointed as primary supervisors for PhD and MPhil candidates. In all cases, higher degree by research students will have two supervisors to ensure the provision of supervision and support of the highest quality.

For further information, please contact:
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**Why Study at the School of Business?**

1. Our academic staff possess a diverse range of skills and research experience and many have extensive experience as supervisors.

2. We have a close knit and supportive student community with whom to share research ideas and social activities.

3. Our diverse student body are from many parts of Australia, Asia and the Pacific with a wide range of work experiences and cultural backgrounds.

4. You will have access to academic staff beyond your supervisory panel for advice and support.

5. The School provides extensive academic support in the form of in-house academic research skills advisors, library support, and a dedicated desk and computer.

6. The School also provides support to attend local and international conferences.
“I chose UNSW as it’s recognised for excellence in research and ranks in the top 100 universities worldwide. It is also part of Australia’s Prestigious ‘Group of Eight’ research intensive universities”

-Nishank Motwani

School of Humanities & Social Sciences
why study at the school of Humanities & social sciences?

We have a strong research focus and outstanding researchers with national and international profiles for their scholarly publications and contributions to public debate.

You’ll have access to Australia’s best resources, including the National Library of Australia, National Archives and the National War Memorial.

World-class research distinguishes our School, but also adds an essential element of quality to our core goal of educating the best leaders.

Research is vital to our existence. Without the opportunities to undertake unique and important research, the School would not attract high-quality academic staff and students.

Areas of Research Strength & Standing

The School of Humanities and Social Sciences (HASS) is one of four academic schools of UNSW Canberra, located at the Australian Defence Force Academy. The University of New South Wales is one of Australia’s Group of Eight (Go8) research-intensive universities, and consistently ranks among the best universities in the world.

The School is composed of five programs – Applied Ethics, English, History, Indonesian Studies, and International and Political Studies – and the research done by its academic staff is wide-ranging. There is, nevertheless, a concentration of research strength in five areas: Asia-Pacific studies; Australian literature; International and non-traditional security; Military ethics and leadership; and Military history.

World-class research distinguishes our School, but also adds an essential element of quality to our core goal of educating the best leaders for Defence. It enables us to attract postgraduate research candidates from across the world, and to participate in international forums as respected contributors to contemporary debates. We welcome as Higher Degree Research students all those who meet the University’s high standards and English language requirements.

For information regarding research opportunities please contact:
A/Prof Craig Stockings
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Email: c.stockings@adfa.edu.au
Australian Literature

Our researchers initiated, and remain a vital part of, the Australian literature e-resource AustLit, the premier bibliographic tool in Australian literary studies, and the Academy Library holds an unrivalled manuscript collection relating to contemporary Australian writers. The Australian Scholarly Editions Centre has been hosted by the School since 1993, publishing authoritative editions of major Australian texts. Our researchers have expertise in most of nineteenth and twentieth-century Australian literature, employing interdisciplinary cultural history and theory, including book history, textual studies and international comparative frames. We offer outstanding resources for higher degree research in these fields.

Military Ethics and Leadership

Our research in this area specialises in the philosophy of armed conflict and military ethics. The conditions under which recourse to war is morally justified to begin with, and the ethically proper conduct of military operations once hostilities are underway, are the two chief points of focus. Researchers in the program also have specific expertise on the ethics of a wide range of related topics, including armed humanitarian intervention, private military and security companies, and non-lethal weapons. The Academy Library also provides outstanding support for those eager to pursue research into the ethical issues raised by the use of military force and political violence.

Military History

The military history research program leads the discipline nationally, with a significant and growing international presence in the study of armed conflict and society in historical perspective. Individual researchers specialise in both the broader impact of war and armed conflict upon society and the technical dimensions of war expressed in strategy and policy, doctrine, administration, logistics, tactical systems and modern staff structures, and on land, sea and air. We also have specific expertise in German, US, Australian, French, Ottoman and Turkish, British and Empire/Commonwealth military history, the two world wars, and in the fields of naval and maritime history. The Academy Library contains the best and most extensive collections of military history in the Southern Hemisphere.

International and Non-traditional Security

Our researchers in this area concentrate on long-standing and emerging challenges in national, regional and global security, with a particular focus on: Australian defence and security policy; the Asia-Pacific region; nuclear weapons; human security; and global security governance. We pursue a range of interests: managing strategic stability and preventing conflict; relations with a rising China; military diplomacy; nuclear arms control and disarmament; security ethics; and the politics of security. Our researchers are also leaders in applying non-traditional approaches such as human security, resilience and cosmopolitanism to new security challenges: climate change; natural disasters; systemic insecurity; ethnic conflict; terrorism; and post-modern conflicts. The Academy Library’s unrivalled collections in defence and security studies make this an ideal venue for this type of research.

Asia-Pacific Studies

The School supports interdisciplinary approaches to understanding Australia’s neighbouring region, one of the most dynamic but also most volatile in the world. Our researchers use the methods of social anthropology, political science and history to explore the changes underway in the region. Current research topics include social development, policy and security studies, and civil society. The Academy Library and Asian language collection at the nearby National Library of Australia offer outstanding research resources. We have hosted the Asia Pacific Seminar Series for more than a decade to share current research with our local, national and international colleagues, and we have a small but vibrant group of research students working on topics with a focus on Southeast and East Asia.
“Thanks to my multi-disciplinary research background at UNSW and the funding provided by the university to attend overseas conferences, I was able to obtain a postdoctoral research position at the University of Oxford after I complete my PhD”

-Priyanka Dhopade
Student Achievements

UNSW Canberra postgraduate student Amit Saha was one of twenty three international recipients of a 2011 travel grant awarded by the Institute of Electrical and Electronics Engineers (IEEE). Mr Saber Elsayed from the School of Engineering and Information Technology was the competition winner of at the IEEE Congress on Evolutionary Computation (CEC2011) held in New Orleans, USA. Three of the top four algorithms were from SEIT.

SEIT PhD student, Ms Hawa Hishamuddin received the best paper award from the Industrial Engineering & Service Science (IESS) 2011.

Ms Sheila Naomi Tobing won the ‘Young Scientist Award’ at the 9th European Fluid Mechanics Conference held in Rome, Italy 9-13 September 2012 for her presentation on ‘A Numerical Analysis of Bumblebee Propulsion’ – S. Tobing, J.Young and J.C.S Lai.

Ms Priyanka Dhopade was the recipient of the Amelia Earhart Fellowship awarded to 35 women around the globe each year.
Why Study at the School of Engineering and Information Technology?

1. Work closely with research groups and individual academics on projects of major significance to national and international Defence organisations – Aust Department of Defence, The Defence Science and Technology Organisation, NASA Langley Research Centre, BAE Systems, US Naval Academy, RWTH Aachen Germany.


3. Ongoing support and mentoring by experienced supervisory academics during the term of a student’s candidature provides high level outcomes and success for the large majority of engineering and information technology students.


ARC Centre of Excellence for Quantum Computer Technology

UNSW Canberra is privileged to be involved with the CQC2T, an international research effort to develop the science and technology of a global quantum information network, encompassing ultra-fast quantum computation, absolutely secure quantum communication and distributed quantum information processing. The Centre was established as a Special Research Centre in 2000 and has nodes at the University of New South Wales, the Australian National University, the University of Queensland, the University of Melbourne, UNSW Canberra, the Department of Defence, Griffith University, Macquarie University and the University of Sydney. The Centre encompasses major research infrastructure at each of the eight nodes, including an extensive semiconductor nanofabrication facility (at UNSW Kensington), crystal growth, ion implantation, surface analysis, laser physics, high magnetic fields/low temperatures, and has substantial theoretical support. The UNSW Canberra node has an experimental quantum optics research program, headed by Prof Elanor Huntington.

For further information, please contact:
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Tremayne Kaseman, PhD Candidate and President of the Arc Canberra Student Group
“The support you get at UNSW Canberra is great. Staff are always friendly and eager to assist.”

-Seimeng Lai

School of Physical, Environmental & Mathematical Sciences

2013
Seimeng Lai, PhD Candidate
Research Areas

Prospective students can apply to do Postgraduate Research (MPhil, MSc, MA or PhD) in a range of fields and research areas within PEMS. The School currently has five priority research areas:

APPLIED AND INDUSTRIAL MATHEMATICS

A/Prof Harvi Sidhu
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The Applied and Industrial Mathematics group applies a broad range of mathematical and statistical techniques, supplemented with extensive modern computing methods, to the analysis of complex real-life problems. Group members are currently conducting fundamental and applied research in areas such as bushfire modelling, combustion, nonlinear optics, ecology and reactor engineering. The group’s research has an international reputation, with the impact of its research recognised by the award of several substantial ARC grants. The interdisciplinary nature of the group’s research has resulted in the establishment of collaborative links with other research groups in the School of PEMS, as well as with researchers at other national and international institutions. The group success in attracting HDR candidates is enhanced by its inter-disciplinary research. The future directions of the group’s research include: instabilities in combustion, bushfire prediction under extreme fire weather, chemical and bio-chemical engineering, nonlinear optics, nonlinear dynamical systems, climate-change effects on wildlife and mathematical dermatology.

ASTROPHYSICS

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Astrophysics is a quantitative and largely observational science that encompasses not only the study of the distant universe, but also solar and planetary physics. Astrophysics group members in the School of PEMS have expertise in star and planet formation and stellar evolution research, maintain strong national and international collaborations, and publish in the leading journals of the field. Group members enjoy considerable success in being awarded peer-reviewed access to national and international ground- and space-based facilities, including NASA’s Hubble and Spitzer Space Telescopes to which access can be measured as in-kind contributions of hundreds of thousands, to millions of mission dollars. The group is positioned to take advantage of Australia’s financial investment in state-of-the-art facilities such as in the Giant Magellan Telescope under construction in Chile, and the Square Kilometre Array radio telescope project.

COASTAL CATCHMENT SCIENCE

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Coastal catchment science fosters research to inform integrated responses to environmental changes in human and biophysical systems with a focus on coastal and catchment areas. Group research in the School of PEMS contributes to understanding the Earth system and informs the scientific community, policymakers, managers and stakeholders through integrated research into environmental change. Research specialisation includes environmental remote sensing and spatial modelling, biological
conservation, resilience and adaptation in human and natural ecosystems, and culture and society. Linking these fields and providing a focus and network for the group is a recently established international collaboration, the Sino-Australian Research Centre for Coastal Management (SARCCM). Research in coastal science is interdisciplinary and collaborates with all schools at UNSW Canberra and several faculties at UNSW Kensington. With excellent infrastructure support, group members pursue key research questions in human and biophysical systems.

FUNCTIONAL MATERIALS

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The School of PEMS has long-held a strong research presence in condensed matter and materials physics, principally using atomic and nuclear techniques. The priority area is strategic research directed at a range of functional materials with applications including: magnetic, electronic and optical signal processing and storage, ionising radiation dosimetry and imaging, magnetic cooling, spintronics, and orthopaedic prostheses. The research is facilitated by measurements made in well-equipped in-house laboratories where we utilise some unique experimental techniques, as well as data resulting from competitive access to major national and international neutron and synchrotron facilities. Ongoing collaborations with many external groups and institutions worldwide, and a strong publication record, contribute to the School’s international standing in this research area. Group activities support several Postdoctoral Fellows and ten HDR candidates.

MOLECULAR DESIGN

A/Prof Cliff Woodward
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Email: c.woodward@adfa.edu.au

The Molecular Design group combines the expertise of several School of PEMS researchers, supported by ten PhD candidates. The research focus is on the design, synthesis and/or study of novel molecules, supramolecular structures and materials for various applications. These include biological, environmental, pharmaceutical, industrial and military applications. Current expertise of members includes: organic and inorganic synthesis, inorganic biochemistry and physical and theoretical chemistry. Well-equipped laboratories and a comprehensive range of instruments support its research goals. Members participate in national and international collaborations, and have international reputations. The future directions of the group’s research include: properties of ionic liquids, new anti-cancer and anti-microbial drugs; functionalized supramolecular building blocks; water quality and purification, and protein aggregation.

For further information, please contact:

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Location: PEMS North, Room 310

Why Study at the School of Physical, Environmental and Mathematical Sciences?

1. The School carries out cutting edge multi-disciplinary research which is underpinned by well-funded campus facilities, equipment and IT support.

2. As a PEMS research student you will be motivated by dynamic community of academics and fellow students who are leading their fields.

3. Don’t get lost in a crowd. Our School values all of our research students. We have 37 academic staff active in research, and 47 postgraduate research students who come to us from all over Australia and from overseas.

4. Collaborations with international and other Australian institutions are a feature of our research activity.
“Even though you’re here to get a degree, Arc is here to help you have the time of your life with heaps of exciting events, activities, publications and competitions. The best part? Arc is run by students, for students and its sole mission is to provide services to students (ahem that’s you - or at least it should be)”
Left to right: Md Ali Hossain (Advocacy Officer), Tremayne Kaseman (President), Md Abdul Barik (Activity Officer), Md Mehedi Hasan (Secretary), Beibei Chen (Activity Officer)
Living in Canberra

Canberra is a modern city and is 100 years old, chosen as Australia’s national capital in 1908 as a diplomatic solution when both Melbourne and Sydney wanted the role. Its name comes from the local Aboriginal word ‘Kamberra’ meaning ‘meeting place’.

As Australia’s capital city, Canberra is the focal point for activities and events that affect and influence the nation. It is the home of Federal Government and the public service, a focus for business and industry, home to the international diplomatic community, a place of study or just a great place to live.

As a planned city, Canberra is known for its large open spaces, parklands and natural beauty. Coupled with fantastic town centres, a café culture and outdoor lifestyle, Canberra offers an almost endless range of things to see and do. The other eastern seaboard cities of Sydney, Melbourne and Brisbane can be easily reached by bus, train or plane.

With almost 370,000 residents, Canberra is a cosmopolitan city enriched by strong national and international ties, a thriving cultural, educational, entertainment and sporting life and all set amidst extensive natural parks.

Canberra also offers unparalleled access to a range of research and study resources and is the base for a host of national organisations like the Australian Institute of Sport, the National Library, the National Gallery of Australia, a showcase Parliament House, the Australian War Memorial, government departments and CSIRO. Canberra offers a lively cultural life and is home to four universities and other higher education institutions.

Campus Support

UNSW Canberra provides a range of facilities for both the on-campus and Distance students, including:

ACADEMIC LANGUAGE AND LEARNING (ALL) UNIT

The ALL Unit provides opportunities to enhance the student learning experience at UNSW Canberra by providing students with opportunities to develop their academic skills; master academic language and literacy strategies; clarify academic expectations and enable students to achieve their academic potential. For example, ALL assists students to enhance their note taking skills, prepare thesis outlines, avoid accidental plagiarism and improve presentation skills. This is done through courses, workshops, individual consultations, online guides and learning resources.

THE ACADEMY LIBRARY

The Academy Library provides a variety of resources and services to all students. The library gives students access to vast amounts of information through texts kept on campus, electronic databases and its ever-expanding multimedia collection. A range of well-equipped flexible study spaces accommodate both students who like to study in a quiet space and those who prefer lively discussions with peers.

This unit also offers orientation sessions for newcomers, seminars about utilising resources and subject guides to online information. Staff with expertise and subject knowledge are available to assist students with individual research queries.

ARC

Arc is a voluntary student organisation, led by students, that provides benefits and services tailored for students at UNSW Canberra. Members of Arc will enjoy: a strong social network; access to clubs and societies; special interest seminars by guest lecturers; access to special grants available only to students at this campus; free legal support and advocacy services; sports days and tours.
COUNSELLING

The Research Student Unit includes a Postgraduate Counseling service on campus.

EQUITY UNIT

The Equity Unit provides a range of services which may be accessed by students including: equity/diversity training; disability support; conflict resolution and advice/support in a friendly confidential environment. Students can also access the ALLY program, an active network that aims to create a more supportive and inclusive environment for lesbian, gay, bisexual, transgender, questioning heterosexual and intersex students.

INFORMATION COMMUNICATION AND TECHNOLOGY SERVICES (ICTS)

Information Communication and Technology Services (ICTS) supports the campus network with complementary links to sources within the ACT, and elsewhere in Australia and overseas via AARNet and GrangeNet.

ICT Services operates several hosts for teaching, research, and administration purposes, and directly supports a number of servers for student laboratories. The functions provided by these include WebCT, email, news, file transfer, directory services, backup and disaster recovery, security and virus detection, the UNSW Canberra corporate web site, and access via the WWW to the Internet.

The Centre maintains a number of application packages available on various machines. These include scientific and graphic libraries, statistical and econometric analysis programs, symbolic mathematics, text analysis, processing, typesetting, simulation and engineering design, and database work.

CREATIVE MEDIA UNIT (CMU)

The Creative Media Unit (CMU) can assist students with the presentation of their assignments through graphic design, document production, video production, photography and sound recording.

RESEARCH STUDENT UNIT (RSU)

The Research Student Unit provides administrative advice and support services to research students. This unit provides advice and guidance on scholarships, admission, enrolment, research candidature, thesis examination and graduation for research students. The RSU has a staff member dedicated to assisting international students with all aspects of living and studying at UNSW Canberra.

OTHER FACILITIES

The UNSW Canberra campus has state-of-the-art computing facilities, well-equipped and modern laboratories and a concessions area which includes a hair salon, a University Co-operative Bookshop, financial institutions, a 24-hr ATM and cafeteria/kiosk. Apart from defence staff, the Indoor Sports Centre which includes a pool, modern gymnasium and other facilities is only available to civilian students who are undertaking full-time study.

Research students have access to the Research Hub, a place for students to relax and socialise. It is equipped with a pool-table, television and other facilities.

There is easy access to free car parking, a taxi rank and bus stops are located on campus.

All these services are designed to be flexible and provide students with outstanding support aiming to make educational experience as rewarding as possible.

PhD Candidate, Zhaoxi Meng, from the School of Business presents her poster at Research Day 2012
Join our research community in 10 easy steps.

www.unsw.adfa.edu.au/connect
Green geopolymers - building materials of the future

Xuan Feng and A/P Ananda Layall / School of Engineering and Information Technology, UNSW, Canberra Australia

Abstract
Geopolymers, made from industrial by-products, can be used in structural concrete to give high compressive strength and reduced carbon emissions. This study presents a novel approach using fly ash and glass microbeads to create geopolymers. The fly ash is ground to a fine powder and mixed with glass microbeads, water, and sodium hydroxide to form the geopolymer. The resulting geopolymers have high compressive strength and are environmentally friendly. The study shows that geopolymers can be used as a sustainable alternative to traditional concrete.

Graphical abstract

Structure of a geopolymer (R1)

Experimental Procedure
- Fly ash and glass microbeads were mixed with water and sodium hydroxide.
- Samples were cured for 28 days at room temperature.
- Compressive strength tests were conducted on the cured samples.

Results and Discussion
- Fly ash and glass microbeads increased the compressive strength of the geopolymers.
- The geopolymer samples showed improved mechanical properties compared to traditional concrete.

Conclusions
- Geopolymers made from fly ash and glass microbeads can be used as a sustainable alternative to traditional concrete.
- Further research is needed to optimize the properties of geopolymers for specific applications.

References

Solid state NMR results

Figure 4: L1P: Na+ and C 13C NMR of ground fly ash

Figure 5: L1P: Na+ and C 13C NMR of ground fly ash

Figure 6: L1P: Na+ and C 13C NMR of ground fly ash
If you have completed approved professional education short courses as part of your career development, you may be able to use these courses as credit towards postgraduate study at UNSW Canberra. If you have completed twelve days worth of approved short courses you may only need to complete an essay exploring issues related to the professional practice of a relevant discipline to gain six units of credit towards a Masters degree.

International Students and English Language Proficiency

Over 259 international students are currently enrolled in research programs. These students include both sponsored military personnel and self-funded civilians.

International students wishing to undertake postgraduate research programs are permitted to attend the UNSW Canberra campus for the duration of their program.
English language requirements at UNSW Canberra are set by The University of New South Wales. It is important that all intending students are sufficiently skilled in reading, writing, listening and speaking in English. One of the main reasons for failure or for lack of progress is due to English language inadequacy, particularly in coursework programs where lecturing, seminars and tutorials are the major modes of delivery and learning.

Applicants who have not undertaken secondary schooling or completed a degree or diploma where English was the primary language of instruction are required to provide proof of their competency in English by presenting acceptable results from a recognised testing centre, taken within the previous two year period.

Further information regarding English Language Proficiency is available online: sas.unsw.adfa.edu.au/international

Contact Details:
Research Student Unit
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Phone: +61 (2) 6268 8112
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Fees and Charges

INTERNATIONAL POSTGRADUATE RESEARCH CANDIDATES

Because each student’s study choices are different it is impossible to provide a definitive cost of studying at UNSW. But here are a few things to consider when calculating your expected fees.

Fees are course based: fees for international students at UNSW are set according to the course (subject) and not the program. The fees reflect the relative cost of delivering the course. So, for example, an engineering course is likely to cost more than a law course. For that reason, your total tuition fees will vary depending on which courses you choose.

Fees vary each year: It is also important to appreciate that fees for courses fluctuate from year to year. The tuition fees listed in this publication are for commencing students in 2013. Fees for 2014 will be released next year and will be available at: https://my.unsw.edu.au/student/fees/TuitionFees.html

Fees are charged based on the year of commencement: For example, if you start in Semester 2 (July 2013) the fees for the first semester will be calculated at 2013 rates. Your second semester fees will be calculated at 2014 rates.

If you have an offer to study at UNSW but defer the start date into a new calendar year, your fees will be charged at the rate for the year you actually commence your studies.

If you are required to complete a course again, you will be charged at the rate applicable to the year you re-take that course.

Estimating your tuition fees: While it isn’t possible to give a fixed annual fee for each program, it is possible to provide an estimate. The 2013 unit of credit rate (UCO) at UNSW Canberra for research programs is $565. Therefore if you study 24 UOC in Semester 2 your fees would be calculated at 24 UOC x $565 = $13,560.

Research Program Fees: The tuition fees listed for research programs are for a standard full-time year of study, which is 48 UOC per year or 24 UOC per semester. Some research degrees combine coursework with research. In this case, your research tuition fee covers the cost of these courses and you are not required to pay an additional fee.

All international students in Australia are protected by legislation passed by the Australian Government called the Tuition Protection Scheme (TPS). The TPS fits within the ESOS legislation for the protection of international students studying in Australia. The TPS was enacted in 2012, and fully implemented January 1, 2013.

For more information about the UNSW fees policy, including refund of fees and overpayments, visit: https://my.unsw.edu.au/student/fees/FeePolicyInternational.html

DOMESTIC POSTGRADUATE RESEARCH CANDIDATES

Domestic PhD or Masters by Research candidates at UNSW are not liable for course tuition fees. Domestic candidates are Australian citizens, Australian permanent residents or New Zealand citizens (but does not include permanent residents of New Zealand).

All new domestic postgraduate research candidates enrolling in a Doctorate or Masters by Research at UNSW are granted a tuition fee exemption under the Commonwealth Government’s Research Training Scheme.

For further information relating to the Scheme please see the Research Training Scheme page on the GRS website: research.unsw.edu.au/research-training-scheme

Note: If postgraduate research candidates enrol in approved coursework as part of their higher research degree at UNSW they are not charged additional tuition fees.

Local students (i.e. Australian citizens, Australian permanent residents and New Zealand citizens) pay up-front program fees at the start of each semester of study for postgraduate coursework programs, unless exemptions apply.

Fees do not apply to research programs but do apply for research qualifying programs.

Fee-Help is an income contingent loan facility for fee paying students to pay postgraduate fees. Further information can be obtained from: www.goingtouni.gov.au

Australian Defence Organisation employees can submit an application to their DASS/Studybank Manager if they wish to be considered for a Defence-funded place at UNSW Canberra. Further information on Defence-funding arrangements can be obtained from: sas.unsw.adfa.edu.au/fees

If, after enrolment and before the end of the fourth week of the student’s commencing semester, a student withdraws from all courses and lodges a
notice of discontinuation of a program, a refund of all tuition fees paid, less $500, will be made.

A student will incur and retain a liability for payment of $500, regardless of whether fees have been paid if the student has accepted the offer of a place and enrolled.

Living Costs

Obviously living costs vary on each student's specific requirements, but we estimate a single international student will need around A$20,000 a year to cover living expenses. This doesn't include the costs of large non-essential items like electrical equipment or a car.

In addition, you will need at least A$2,000 when you arrive in Canberra to cover initial expenses such as a rental bond payment (security deposit), electricity, gas and telephone connection fees and basic furniture and household items.

All estimates are subject to inflation and currency fluctuations. The current inflation rate in Australia is approximately 2.5 to 3.5% per year.

Accommodation Options

There are a range of accommodation options across Canberra. Students can rent private apartments or can share with fellow students. In addition, UNSW Canberra students can access UniLodge accommodation across seven locations in Canberra. Accommodation options range from 1 bedroom apartments, studio apartments to shared apartments. Each accommodation option is located on major bus routes and in town centres. For more information please visit: www.unilodge.com.au

Overseas student health cover

If you are in Australia on a student visa, then you will need to pay for health insurance in Australia through the Overseas Student Health Cover (OSH) scheme and maintain insurance for the full duration of your visa.

The only exception is for students from Belgium, Norway and Sweden who are covered by CSN or Kammarkollegiet. These students will, however, need to provide proof of official health insurance cover from their home government.

There are five registered providers of OSHC: Medibank (UNSW's preferred health cover provider), BUPA Australia Health, Worldcare, nib OSHC and Australian Health Management. Medibank OSHC will pay benefits towards your medical and hospital treatment, medically necessary ambulance transport and most prescription medicines that you might receive while living in Australia. Just be aware that there may be some exclusions for pre-existing conditions and you may have to serve a waiting period to receive certain services.

Also, as with any health insurance, certain services are not covered by Medibank's policies. These include optical, physiotherapy, dental and certain pharmaceuticals. If you want to be covered for these expenses, you will need to take out additional insurance.

UNSW Defence-Funded Postgraduate Study for members of the Australian Defence Organisation

If you are a staff member of the Australian Defence Organisation, you may be entitled to study free of charge as a postgraduate student at UNSW Canberra. UNSW Canberra is committed to developing the skills of military and civilian members of the Australian Defence Organisation and this includes the provision of Defence-funded postgraduate tuition to eligible staff.

Postgraduate programs may be taken in either on-campus or Distance modes and study can be completed on a part-time basis.

No return of service obligation is applied to Defence military personnel gaining a Defence-funded postgraduate award at UNSW Canberra, and an undergraduate degree is not always necessary for admission depending on whether you have relevant work experience or academic/professional qualifications.

If you are an ADF or Defence APS personnel (including Reserves on continuous full-time service) and would like to find out more about the Defence-funded places available, please contact your local DASS/Studybank Officer or visit: sas.unsw.adfa.edu.au/defence_personnel

HOW TO APPLY

When applying for a Defence-funded Postgraduate Study position it is vital that you follow a few simple steps to give yourself the best chance of being admitted to UNSW Canberra and having the cost of your study met by the Department of Defence. Application for Defence-funded Postgraduate Study is a two-step process that must be completed simultaneously. You must submit an application for Defence funding AND apply for admission to UNSW. See information above on how to apply to UNSW Canberra and application closing dates above.

DEFENCE FUNDING APPLICATION

Eligibility

Defence-funded postgraduate studies are open to all permanent Australian Defence Force (ADF) members, including Reserve Force members on continuous full-time service of a minimum of 365 days and Defence Australian Public Service (APS) employees. APS employees who are non-ongoing or are on graduate or other entry level programs are currently ineligible. Members need
not necessarily have undertaken an undergraduate degree, as work experience and other educational qualifications will be taken into account when applying. There is no return of service on member-initiated postgraduate study at UNSW Canberra under this scheme.

Application process

In order to be considered eligible for funding all applicants must complete an ADF Application Form AD 481—Application for Postgraduate Study at UNSW Canberra.

All applications are to be signed by the member’s supervisor in the first instance, and then by the following recommending authority:

- within the Australian Capital Territory (ACT) an Executive Level (EL) 2 or O–6; and
- outside the ACT (Regional areas) an EL 1 or O–5.

Applications must reach the relevant regional Defence Assisted Study Scheme (DASS) or Studybank Office by the close of business on 1 November for Semester 1 study or by 30 April for Semester 2 study. Applicants will be notified by the Education Training and Development (ET&D) DASS or Studybank Officer if they are successful in obtaining a Defence-funded position.

Please contact your ET&D delegate for details regarding your funding status.

Do not wait to be informed of your Defence funding status to apply to UNSW, nor wait until you have been accepted by UNSW Canberra before applying for funding. Both applications are to be submitted concurrently.

You can always alter your funding details or defer your study before the commencement date.

A DEFGRAM is released twice per year calling for funding applications for Defence-funded Postgraduate Study at UNSW Canberra. They are released in February and August each year and contain all the information relevant for the up-coming study semester. The DEFGRAM can be found at: sas.unsw.adfa.edu.au/fees

Please note

Students are reminded that they must submit an application form for funding every semester of their postgraduate program to be considered for continued Defence funding;

No tuition fees are due (as long as you submit an application for funding each semester), however, you do have to pay for your textbooks, and any applicable late fees if you apply to UNSW after their cut off date; and

Late applications will only be considered when all ‘on-time’ applications have been allocated, and results from previous semesters are taken into account.
Closing dates for applications for admission to postgraduate programs at UNSW Canberra are:

- 20 January for all admissions in Semester 1 (March commencement)
- 20 June for postgraduate coursework admission in Semester 2 (July commencement)
- 20 May for postgraduate research admission in Semester 2 (July commencement)

FURTHER INFORMATION

Further information on Defence funding can be obtained by contacting your Local DASS/Studybank Officer.