Applying for Postgraduate Research

Never Stand Still

Engineering

Water

Chemical

Natural Resources

Manufacturing

Services

Energy

Renewable Energy

Health

Geospatial

Sustainability

Chemical

Environment

Naval

Aerospace

Geotechnical

Infrastructure

Mining

Project Management

Biomedical

Management

Space

Mechanical

Mechatronic

Nanotechnology

Food Technology

Renewable Energy

Civil

Satellite

Bioinformatics

Architecture

Computer Engineering

Automation

Surveying

Recycling

Transport

Project Management

Energy

IT

Nuclear

Software

Digital Services

Solar

Telemcommunications
How to apply for postgraduate research in five steps

Find a research area
Before applying for a postgraduate research program, match your area of interest with those offered by our schools. A list of research areas can be found on the back page of this guide or at http://unsw.to/researcharea.

Each research program has specific entry and eligibility requirements. For more information:

► Doctor of Philosophy (PhD): http://unsw.to/research-doctor-philosophy-phd
► Masters by Research (MRes): http://unsw.to/research-master-research

Enter current year in URL above

Find a supervisor
Before submitting an application, you must independently contact a UNSW researcher and secure their agreement to supervise your work. Proof of correspondence needs to be included in your application. If you’re having difficulty finding a researcher, contact the school’s postgraduate research coordinator (see back page of this guide).

Search help: http://unsw.to/researcher

Offers
If successful, you will be sent a full or conditional offer. Please read your offer letter carefully before accepting. You will then need to enrol for the correct semester and have your enrolment form approved by your school.

To accept your offer: my.unsw.edu.au

Fees and costs
For the duration of the degree, international candidates are required to pay tuition fees. While domestic candidates are not required to pay tuition fees, some programs may include additional costs for laboratory kits and field trips.

More information: http://unsw.to/research-fees

Scholarships
Many scholarships are available for postgraduate research programs, from UNSW Australia, the Australian government, industry partners, and organisations from other countries.

More information: http://unsw.to/research-scholarships

English requirements
All applicants must meet the UNSW English Language admission requirement.

More information: http://unsw.to/research-english-policy

Student visa information
Most international students require a student visa to study in Australia. The Department of Immigration and Border Protection is responsible for issuing student visas to Australia.

More information: http://unsw.to/research-visas
Develop a research proposal
Your proposal needs to be sufficiently detailed to enable the University to determine if it’s possible to provide adequate supervision and resources to support your research.
More information: http://unsw.to/research-proposal

Prepare supporting documentation
Required documents may include your supervisor’s agreement, research proposal, resume, all transcripts (degree results) and English language test results. Documents must be in English or include a certified English translation.
More information: http://unsw.to/research-documentation

Submit your application online
Once you have secured a supervisor, developed a proposal and prepared supporting documents, you can lodge your application. International students need to apply for admission and scholarships at least six months before their planned starting semester.
More information: http://unsw.to/research-enrol

FAQs
For further information about the Graduate Research School, go to http://unsw.to/research-FAQs

Accommodation
UNSW students have many options, from on- and off-campus university accommodation to private housing.

Transport and facilities
The main UNSW campus is on 38 hectares in Kensington, which is close to Sydney’s CBD and other major attractions. It has many shops and services, including cafes, banks, medical and dental centres, a bookshop, supermarket and post office.
More information: student.unsw.edu.au/facilities

Support services
Student Development International can help with accommodation, visa issues, cultural support, advice on learning in a new environment and professional development.
More information: student.unsw.edu.au/international

Student wellbeing
UNSW cares about a student's personal wellbeing as well as their academic success. A range of services to support this are available on campus.
More information: www.unsw.edu.au/life
Our research areas

Biomedical Engineering

**Contact:** Dr Penny Martens: p.martens@unsw.edu.au

**Research areas**
- Biomaterials, tissue engineering and regenerative medicine
- Bions, biomonitoring and modelling

Chemical Engineering

**Contact:** Professor Jie Bao: pgrcoord.ceic@unsw.edu.au

**Research areas**
- Computer process control
- Electrochemical engineering and batteries
- Energy and storage
- Environmental technology
- Membrane science and technology
- Nano materials and technology
- Particle technology and catalysis
- Polymer science and technology
- Process modelling and optimisation
- Rheology of complex fluid microstructures
- Supercritical fluids
- Wastewater treatment

Food Science and Technology research areas

- Food analysis
- Food chemistry
- Food microbiology
- Food process engineering
- Food processing
- Food safety and quality
- Nutrition
- Sensory analysis
- Product development

Electrical Engineering and Telecommunications

**Contact:** Professors Vincent Castanier, S. Jiang, C. Yu

**Research areas**
- Biomedical engineering
- Computer networks
- Control systems
- Electrical power systems
- Microelectronics
- Mobile communications
- Photonics and communications
- Power electronics and drives
- Power systems
- Quantum communications
- Quantum computing
- Satellite systems
- Signal processing
- Wireless communications and networks

Mechanical and Manufacturing Engineering

**Contact:** Associate Professor Zhongxiao Peng:
pgrcoord.mech@unsw.edu.au

**Research areas**
- Advanced manufacturing
- Advanced structures and materials
- Aerodynamics and aerospace
- Bio-fluidics and nano/micro transport
- Combustion and solar thermal energy
- Robotics and autonomous systems
- Tribology and machine condition monitoring
- Vibration and acoustics

Mining Engineering

**Contact:** Dr Chris Daly:
c.daly@unsw.edu.au

**Research areas**
- Innovative learning and teaching
- Mining geomechanics
- Mining systems and mineral processing
- Sustainable mining practices

Petroleum Engineering

**Contact:** Professor Sheik Rahman:
sheik.rahman@unsw.edu.au

**Research areas**
- Drilling and completion
- Petroleum economics
- Petroleum geoscience
- Reservoir characterisation
- Reservoir engineering and simulation

Photovoltaics and Renewable Energy

**Contact:** Professor Gavin Conibeer:
g.conibeer@unsw.edu.au

**Research areas**
- Advanced photovoltaic concepts: band gap engineering, hot carriers, spectrum conversion
- Advanced PV materials
- Crystalline silicon solar cells – design, optimisation and processing techniques for increased efficiency and reduced cost
- Energy efficiency and low-energy building design
- Energy storage: photoelectrolysis and conversion of solar fuels
- Light trapping in thin crystalline silicon, novel semiconductor devices
- Photovoltaic applications in developing countries
- Photovoltaic device physics, modelling, design and characterisation; photovoltaic module design
- Renewable energy policy
- Tandem cell devices on silicon cell substrates: GaAs and SiGe devices
- Wind energy forecasting

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**DISCLAIMER:** Information in this publication is accurate as of May 2015, and may be amended without further notice by the University.

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