Research fellowship opportunities in Science

THE UNIVERSITY OF SYDNEY

sydney.edu.au/science

Science research fellowship opportunities

Chemistry, Geosciences, History and Philosophy of Science, Life and Environmental Sciences, Mathematics and Statistics, Physics, Psychology, Veterinary Science

We acknowledge the tradition of custodianship and law of the Country on which the University of Sydney campuses stand. We pay our respects to those who have cared and continue to care for Country.

Welcome from the Associate Dean Research

Thank you for your interest in research fellowship opportunities in the Faculty of Science at the University of Sydney.

We welcome the opportunity to increase the capacity and impact of our research by hosting fellows in areas of strength and strategic importance.

Sydney offers a fantastic environment to take your research ambitions to the next level. You would be working alongside some of the very best. From quantum computers and robotic dairy farms to virtual reality and vaccines, our scientists are blazing the path towards a better world. The Schools and disciplines within the Faculty of Science are routinely lauded as the most comprehensive and successful in Australia and the world, as evidenced by our successes in all of the major rankings.

Supporting the very best and brightest researchers is at our core. We offer excellent support for our early- and mid-career research fellows, through mentoring and targeted support schemes. Many of our fellows have used these opportunities to catapult their career into research leadership roles on the national and international scene. I invite you to read the profiles of a selection of our current fellows, and I'm sure you will be as inspired as I am by their stories.

The University of Sydney has invested heavily in research capacity across the full spectrum of the sciences. From an island field station on the Great Barrier Reef, to world leading nanoscience laboratories, our scientists have access to world-leading facilities and equipment. Our Multi-Disciplinary Institutes and Core Research Facilities offer collaborative spaces, critical mass of researchers, and the very best research tools available.

Please reach out to us and start a discussion. We are keen to hear from you.

Prof Stephen Bartlett
Associate Dean Research

About the Faculty of Science

With a diversity of specialisations, a reputation for research excellence, and partnerships with institutions and industry, the Faculty of Science is positioned as a leading provider of education across the spectrum of the sciences.

The Faculty comprises:

- School of Chemistry
- School of Geosciences
- School of History and Philosophy of Science
- School of Life and Environmental Sciences
- School of Mathematics and Statistics
- School of Physics
- School of Psychology
- Sydney School of Veterinary Science

We are also home to a range of research entities such as:

- The Lambert Initiative for Cannabinoid Therapeutics
- The Sydney Mathematical Research Institute
- The Sydney Institute of Agriculture (SIA)

We partner closely with the University's multidisciplinary initiatives and centres including:

- The Brain and Mind Centre
- The University of Sydney Nano Institute
- The Marie Bashir Institute
- The Centre for Translational Data Sciences
- The Drug Discovery Initative

The significant level of funding we receive through the Cooperative Research Centres, National Health and Medical Research Council and the Australian Research Council, amongst other bodies, highlights our reputation for research excellence.

Major facilities that support our research include:

- Astronomical field stations
- The Sydney Nanoscience Hub
- Sydney Microscopy and Microanalysis
- The Australian Centre for Microscopy and Microanalysis

- The Sydney University Prince Alfred Macromolecular Analysis Centre
- One Tree Island Research Station on the Great Barrier Reef
- Various state- of-the-art spectrometry facilities, significant rural and farm teaching and research facilities, extensive specialist workstations and database networks, and computer graphics systems.

In addition to the range of specialisations offered by our numerous departments and schools, we deliver innovative interdisciplinary programs, including studies in the areas of optical fibre technology, agricultural and veterinary sciences, marine studies, sustainability and computational science.

We have established active collaborative programs and international links with teaching and research organisations. Formal staff and student exchange agreements operate with institutions in the USA and Asia.

The Faculty of Science at the University of Sydney has an innovative edge and the drive to challenge traditional ways of thinking. There's never been a better time to join us.

Faculty overview	
Undergraduate students	7500
Postgraduate coursework students	950
Postgraduate research students	1100
Academic staff	780
Professional staff	260
Schools	8

For more information visit: sydney.edu.au/science

About the University of Sydney

The University of Sydney is a leading, comprehensive research and teaching university. We are committed to harnessing the transformative power of education and research to foster greater knowledge and a better understanding of the world and its people.

We are highly influential in shaping Australia's national and international agenda and delivering solutions to the challenges facing society. We achieve this through critical analysis, intellectual leadership and active contribution to public debate.

Our primary objective is to create and sustain a university in which, for the benefit of both Australia and the wider world, the brightest researchers and the most promising students, whatever their social or cultural background, can thrive and realise their full potential.

This central purpose underpins our strategic goals. It challenges us to develop and support a community of scholars, where interdisciplinary research can flourish and where the student experience is enriched.

Learn more:

- sydney.edu.au/strategy/about

Our research

The University of Sydney is recognised as one of the best universities in the world, with a breadth and depth of disciplinary excellence unequalled by any other Australian university.

Our research, all of which is ranked at world standard or above (ERA 2018), is driven by the big picture and aims to solve the most important problems and the most exciting new challenges facing society.

The University of Sydney invests in research excellence. Initiatives that contribute to outstanding research outcomes are key to our University strategy and are being supported by unprecedented investment.
For more information visit:

- sydney.edu.au/research

Our teaching

Undergraduate and postgraduate students, drawn by our comprehensive range of quality degrees, a strong track record for postgraduate research programs and our rankings (40th in the world, QS 2021).

Our students study alongside top researchers and, in some cases, contribute to their research. We expect them to excel and challenge them to succeed as leaders in whatever career field they choose.

Our staff are provided with multiple development opportunities including support for HEA (Higher Education Academy) Fellowship applications via the Sydney Education Fellowship Program and training in research supervision.

Our campuses

Located close to the heart of Australia's largest and most international city, our Camperdown/Darlington Campus features a mixture of iconic Gothic-revival buildings and state of-the-art teaching, research and student support facilities.

The University also has an extensive footprint throughout Sydney. Some faculties are based in Camperdown/Darlington but have facilities elsewhere. Our researchers and students have access to excellent library resources.

Useful links

Careers:

- sydney.edu.au/recruitment

Organisational structure:

- sydney.edu.au/about-us/governance-and-structure/organisational-structure

Annual Report:

- sydney.edu.au/about-us/vision-and-values/ annual-report

News:

- sydney.edu.au/news-opinion/news

Statistical snapshot 2019

Enrolments, total	73,804
Enrolments, international	32,671
Staff (full-time equivalent)	9123.9
Faculties and University schools	8
Research centres and institutes	90+
Student:Staff ratio	16:4
ARC Centres of Excellence	9
Cooperative Research Centres (CRC)	5
HERDC research income (2017)	$387M
Sporting clubs	40+
Clubs and societies	240+

Why choose Sydney for research in science?

University of Sydney is ranked 2nd in Australia, and in the top 50 universities in the world, for more than 35 subjects.

Subject	Australia	World	Ranking source
Agricultural sciences	2	32	US News and World Report
Geography	2	15	QS2020
History, philosphy and theology	2	41	THE 2020
Life sciences	4	57	THE 2020
Psychology	4	27	QS 2020
Space science	2	40	US News and World Report
Veterinary sciences	1	12	QS 2020

Australian Research Council ERA Rankings

Excellence in Research for Australia (ERA) is an Australian Research Council (ARC) system that evaluates the quality of research by discipline against the world standard. It identifies the research strengths of individual universities and of the sector as a whole.

To rank the disciplines ARC use FoR codes (Fields of Research) (ANZSRC). In the 2018 round of ERA, the Faculty of Science has achieved four FoR codes rating:- Well above world standards, and four of the FoR codes rating :- Above world standards.

FoR code	Field of Research	2018 Ranking
01	Mathematical Sciences	Well above world standards
02	Physical Sciences	Well above world standards
03	Chemical Sciences	Well above world standards
04	Earth Sciences	Above world standards
05	Environmental Sciences	Well above world standards
06	Biological Sciences	Above world standards
07	Agricultural and Veterinary Sciences	Above world standards
17	Psychology and Cognitive Science	Above world standards

Associate Professor Elizabeth New

School of Chemistry
ARC DECRA recipent 2012

What has this fellowship done for your career?

Holding a DECRA at the start of my independent research career really helped me to establish my research with fewer competing demands from service and teaching activities.

The networks that I established, of fellow DECRA-holders at the University, and other DECRAs in Australia in my field, were really useful in providing support and advice in my early career, and they continue to be amongst my most valuable collaborators

What advice would you give to potential researchers considering University of Sydney as an option?

The University of Sydney is a wonderful place to hold a Fellowship – the University has such a strength of research across many fields, and so it is an ideal location to build and develop impactful research. A fellowship is a perfect time to develop collaborations, particularly with those outside your field, and within the University there are many options to do that.

The University also has really dedicated and expert staff – both academic and professional – who are generous in assisting Fellowship applicants, so my advice is to make sure to ask for help!

Benefits of working here

At the University of Sydney we attract the most vibrant thinkers to form a community dedicated to the pursuit of transformative education and research.

Achieve your ambitions

If you want to engage with brilliant minds, are willing to push boundaries, and believe in making a positive difference, you've come to the right place. Our people come from all cultures and backgrounds and enjoy a true sense of community and belonging.

We recognise that our talented staff are invaluable, and we support them to achieve their career ambitions and follow their dreams. Using our outstanding local and global networks, we can offer flexibility, responsibility, personal and professional development, and much more.

We reward our staff

We welcome open minds, curiosity, and a readiness to tackle big questions – and we reward it accordingly.

Our people are part of an exciting environment where development is encouraged, and intellectual pursuits foster a sense of purpose and confidence. We are also committed to diversity and equal opportunity.

In addition to a competitive base salary, we offer a wide variety of financial and non-financial benefits to our staff. These include:

- working arrangements which assist staff in managing their work and personal/family responsibilities and provide flexibility in meeting business needs
- family-friendly working hours
- generous leave entitlements
- a University contribution of up to 17% of base salary to your superannuation (pension) fund

- opportunities for tax-efficient salary packaging, including motor vehicles, laptops and additional personal contributions to your superannuation fund
- a variety of training and development opportunities
- exceptional health and wellbeing services, including sports and fitness centres, medical clinics and free counselling via the Employee Assistance Program
- University Parents Network which offers support to parents throughout the University
- on-campus parking and convenient transport services
- contribution to professional membership fees
- a free Staff Benefits Program providing online discounts across an extensive range of goods and services
- access to the cultural life on campus which includes our museums and art galleries; music and theatre at the Conservatorium of Music and Seymour Centre; and Sydney Ideas which is the University's premier public lecture series program that aims to bring some of Sydney's, Australia's and the world's, leading thinkers to the wider Sydney community.

Australian Research Council (ARC) Fellowships:
ARC Discovery Early Career Research Awards (DECRA)

A launchpad for early career researchers, up to 5 years out of PhD.

Overview
The Discovery Early Career Researcher Award (DECRA) grant opportunity provides focused research support for early career researchers. Normally up to 200 three-year DECRAs are awarded each year by the Australian Research Council (ARC). Successful fellows are supported by up to $50,000 per annum in project funds.

The DECRA scheme aims to:

- support excellent basic and applied research by early career researchers;
- support national and international research collaboration;
- enhance the scale and focus of research in Australian Government priority areas;
- advance promising early career researchers and promote enhanced opportunities for diverse career pathways; and
- enable research and research training in high quality and supportive environments.

Eligibility
Early Career Researchers receiving their PhD in the last five years or have eligible commensurate career disruption.

- Check your eligibility

ARC message on eligibility extension (1 May 2020): Due to the impacts of COVID-19 to early career researchers, the ARC has introduced a one-year automatic eligibility extension for all researchers currently in their final year of eligibility. Researchers in their final year of eligibility for DECRA may choose to apply in 2020 (for DECRA 2022) within the existing eligibility timeframes or in 2021 (for DECRA 2023) utilising the automatic one-year extension. Final year applicants cannot apply in both rounds.

- Read more

Deadline
Applications for DECRA fellowships commencing in 2022 are due **25 November 2020,** but potential applicants should contact their supporting School by **09 September 2020**.

Of the researchers who were awarded a DECRA fellowship in the Faculty of Science in the last 9 years:

- 96% continued in a research career
- 37% continued as researchers at University of Sydney
- 24% continued as a researcher overseas
- 13% obtained an ARC Future Fellowship

Dr Arne Grimsmo

School of Physics
ARC DECRA recipent 2019

What had attracted you to Sydney?
I moved to Sydney from Canada to do a postdoc in what I considered to be one of the best groups in the world in quantum theory. It was the people that attracted me. Of course, the fact that Sydney is one of the most beautiful cities in the world doesn't hurt!

What has this fellowship done for your career?
When I was considering applying for a DECRA fellowship, one of the professors in my group said that getting a DECRA "will change your life." And it actually has. Getting a DECRA helped me get a continuing faculty position at Sydney University, which was a huge thing for me professionally. It has allowed me to focus on my research and really establish myself in my field.

What advice would you give to potential researchers considering University of Sydney as an option?
Sydney is a fantastic place to live, and Sydney University is one of the best universities in Australia. We get really good students here who want to do PhDs and we have great postdocs coming from all over the world. In my experience, if you come here as a new researcher, people really want you to succeed and they will help.

Australian Research Council (ARC) Fellowships: **ARC Future Fellowships (FT)**

Enabling outstanding mid-career researchers – 5 to 15 years out of PhD.

Overview

The Future Fellowships scheme seeks to retain and attract the best and brightest mid-career researchers to undertake high-quality research programs in areas of national and international benefit.

Up to 100 four-year Future Fellowships may be awarded each year by the Australian Research Council (ARC). These fellows are supported by up to $60,000 per annum project funding.

The Future Fellowships scheme aims to:

- support excellent basic and applied research and research training by outstanding mid-career researchers to be recruited by universities in academic positions;
- support national and international research collaboration; and enhance the scale;
- focus of research in Australian Government priority areas.

Eligibility

Future Fellowships candidates receiving their PhD in the past five to fifteen years or have eligible commensurate career disruption.

- Check your eligibility

ARC message on eligibility extension (1 May 2020): Due to the impacts of COVID-19 to mid-career researchers, the ARC has introduced a one year automatic eligibility extension for all researchers currently in their final year of eligibility. Researchers in their final year of eligibility for Future Fellowships may choose to apply in 2020 (for FT 2021) or utilise the automatic one-year eligibility extension to apply in 2021 (for FT 2022). Final year applicants cannot apply in both rounds.

- Read more

Timeline

Applications for Future Fellowships commencing in late 2021 are due 9 December 2020, but potential applicants should contact their supporting School by **07 October 2020.**

Dr Adriana Dutkiewicz

School of Geosciences
ARC Future Fellow 2019

What had attracted you to Sydney?

My project on the deep-sea long-term carbon cycle is cross-disciplinary and involves analysing large and complex data sets. My decision to undertake the Future Fellowship at the University of Sydney was largely influenced by the outstanding and collegial research environment in the School of Geosciences, and its cross-disciplinary expertise that uniquely links Earth, environmental and human systems.

Central to my research are the activities of the EarthByte Research Group, which leads innovative technology development in virtual Earth modelling, assimilating the wealth of geological and geophysical data into an experimental planet.

What has this fellowship done for your career?

The Fellowship is giving me an opportunity to focus my energy on research-related activities. It will broaden my scope in the relatively new field of computational geosciences, and will allow me to build a research group in this area at Sydney. It is early days as my Fellowship commenced in June 2020.

Australian Research Council (ARC) Fellowships: **ARC Australian Laureate Fellowships**

World leaders, building research capacity for the benefit of all.

Overview
The Australian Laureate Fellowships scheme supports excellence in research by attracting world-class researchers and research leaders to key positions and creating new rewards and incentives for the application of their talents in Australia.

Preference is given to researchers who will play a significant, sustained leadership and mentoring role in building Australia's internationally competitive research capacity.

Up to 17 five-year Australian Laureate Fellowships may be awarded each year by the Australian Research Council (ARC), providing a salary supplement, in addition to a Level E professorial salary provided by the Administering Organisation; funding for up to two Postdoctoral Research Associates (five years) and two Postgraduate Researchers (four years); and up to $300,000 per annum project funding.

The Australian Laureate Fellowships scheme aims to:

- support ground-breaking, internationally competitive basic and applied research
- forge strong links among researchers, the international research community and/or industry and other research end-users
- enhance the scale and focus of research in Australian Government priority areas
- attract and retain outstanding researchers and research leaders of international reputation
- provide an excellent research training environment and exemplary mentorship to nurture early-career researchers.

Deadline
Applications for Australian Laureate Fellowships commencing in late 2021 are due **28 October 2020**, but potential applicants should contact their supporting School by **31 August 2020**.

Professor Nalini Joshi AO

School of Mathematics and Statistics
ARC Georgina Sweet Australian Laureate Fellow 2012

What had attracted you to Sydney?
The extraordinary quality of students who choose to study at the University of Sydney.

What has this fellowship done for your career?
It's like being hit by a truck. It is a game changer for the level and intensity of research you can do and for the quality of researchers you can attract to work with you.

What advice would you give to potential researchers considering University of Sydney as an option?
Think about what support the University can give you to attract others including additional support for students, what you need to carry out your research, for example space, and how you can benefit the community of researchers close to your area in Australia, for example by holding workshops.

National Health and Medical Research Council (NHMRC) Fellowships: The NHMRC Investigator Grants

This scheme provide the highest-performing researchers at all career stages with funding for their salary (if required) and a research support package (RSP) for five years.

Investigator Grants will support:

- different career stages – early career researchers, mid-career researchers and established researchers
- researchers with clinical responsibilities (such as clinicians, public health and allied health practitioners) and part-time researchers.

Structure

Investigator Grants will be offered in two categories:

- **Emerging Leadership (EL)** – recipients will have the title 'NHMRC Emerging Leadership Fellow'
- **Leadership (L)** - recipients will have the title "NHMRC Leadership Fellow'

Five levels of salary support and six tiers of research support packages (RSP) will be offered across the scheme.

NHMRC Emerging Leadership Investigator Grants will be restricted to researchers who are ≤10 years post-PhD or equivalent on 1 March of the application year.

Investigator Grants comprise a Research Support Package (RSP) and a salary component. The salary component of Investigator Grants is provided as a contribution to assist Administering Institutions with employing the successful applicant. However, an Investigator Grant recipient's total salary is agreed through negotiation between the researcher and their Administering Institution.

Salary

Applicants to the Investigator Grant scheme select the most appropriate Level (Emerging Leader 1 - Leader 3) for their career stage and the percentage of salary required to support their research activities, while ensuring they meet eligibility requirements.

If applicants request a salary, the Leadership Level selected will determine the salary awarded. Salary levels have been set at the top of current, broadly equivalent NHMRC Fellowship levels.

Research Support Packages for NHMRC Investigator grants

Successful applicants at Emerging Leadership Levels 1 and Level 2 will be awarded a fixed RSP of $50,000 and $200,000 per annum, respectively.

There are four tiers of RSP for the Leadership Investigator Grants. These have been set at $300,000, $400,000, $500,000 and $600,000 per annum and will be allocated independently of the Leadership level, based on the overall peer review score of the application. As a comparison, the average Project Grant provides approximately $200,000 per annum for three years (excluding clinical trials grants).

Research Support Packages can be used to fund Direct Research Costs.

Dr Stephanie Wong

School of Psychology

NHMRC Emerging Leadership Fellow (EL) 2020

What had attracted you to Sydney?

The University of Sydney has several world-class research institutes that bring together experts across multiple disciplines to focus on common goals, such as disorders of the brain and mind. This multi-disciplinary approach was one of the things that drew me to Sydney.

My research combines clinical neuropsychology, cognitive neuroscience and neuroimaging techniques to explore the neural basis of cognitive and behavioural changes in individuals with dementia. Working in an environment that supports collaborative research and has strong links with the healthcare sector is important for me to be able to translate my research into meaningful clinical outcomes.

Where you hope the fellowship will take your career?

Having built up my research experience through a 3-year postdoc position and completed my specialist training as a clinical neuropsychologist, the NHMRC Emerging Leadership Investigator Fellowship will allow me to establish my own program of research which focuses on understanding what gives rise to certain cognitive and behavioural problems (e.g. apathy, impulsivity, poor judgement and decision-making) in dementia, in order to develop better ways to treat and manage these symptoms.

This fellowship will provide the essential support and stability to build the foundations of my career in clinical dementia research. Hopefully, this will lead to exciting new discoveries that can improve the quality of life of people living with dementia and their families.

What advice would you give to potential researchers considering University of Sydney as an option?

I was fortunate to work in a supportive team during my postdoc at the University of Sydney, which gave me the freedom to apply for separate project grant funding to support additional, independent areas of research.

The University has many internal funding opportunities, which can serve as useful stepping stones to build up your track record for fellowship applications. Take every possible opportunity to apply for funding – even if you are unsuccessful, you will gain crucial experience in grant-writing and develop a thick skin, which is increasingly important as an early-career researcher.

I would also recommend working closely with the Research Grants team, who can provide valuable insights and suggestions to improve the quality of your applications.

Core research facilities

The University of Sydney's core research facilities provide access to high-end research infrastructure and offer a range of related services to assist researchers with specialist applications.

Research and Prototype Foundry (RPF)

The RPF offers instruments for the fabrication of devices and structures with features on the micro and nanoscale, with specialised processes allowing users to make devices and prototype new ideas.

The RPF enables the development of optical chips, electronic devices and new quantum science and technology via outstanding lithography, etching, deposition and metrology capabilities.

- sydney.edu.au/research/facilities/research-and-prototype-foundry.html

Sydney Analytical

Sydney Analytical is the University's core research facility dedicated to material, chemical and biological analysis.

We offer open access to the University's flagship capabilities for vibrational spectroscopy, x-ray analysis, drug discovery and magnetic resonance, as well as expert technical guidance, to support researchers as they address their most challenging research priorities.

- sydney.edu.au/research/facilities/sydney-analytical.html

Sydney Cytometry

Sydney Cytometry is the Advanced Cytometry Facility established through a collaboration of the Centenary Institute and the University of Sydney.

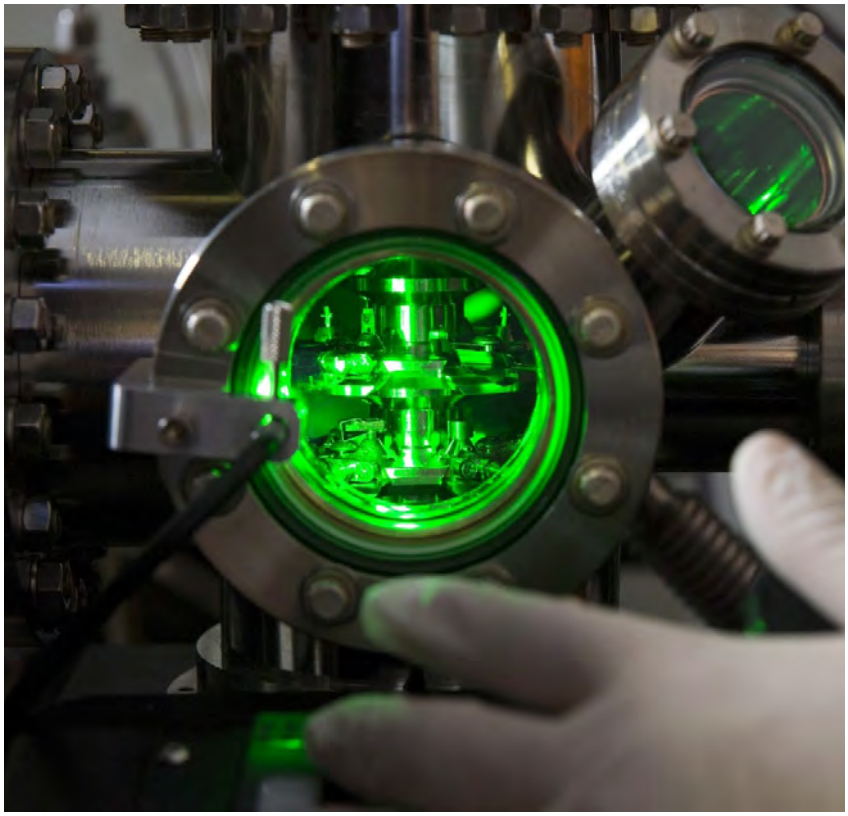
It is a core research facility for cytometry, cell sorting and imaging that serves the University of Sydney campus and beyond.

- sydneycytometry.org.au

Sydney Imaging

This biomedical research facility has a comprehensive suite of preclinical and clinical imaging modalities, a state-of-the-art hybrid theatre, and world-class technical expertise.

- **Preclinical Imaging** - The preclinical facilities at Sydney Imaging provide a wide range of modality options for healthcare researchers conducting in vivo studies for clinical translation
- **Clinical Imaging** - capabilities enable the development of best-in-class diagnostic tools and patient treatment options.
- **The Hybrid Theatre** expands research and training capability in interventional cardiology, neurosurgery, cardiothoracic surgery, laparoscopic surgery, cancer treatment planning and any area where visualisation of devices or contrast is valuable.
- sydney.edu.au/research/facilities/sydney-imaging.html



Sydney Informatics Hub

The Sydney Informatics Hub provides support, training, and expertise in research data management, statistics, data science, software engineering, simulation, visualisation, bioinformatics, and research computing.

- sydney.edu.au/research/facilities/sydney-informatics-hub.html

Sydney Manufacturing Hub

Providing cutting-edge expertise in additive manufacturing and materials processing to serve both fundamental and applied research.

- sydney.edu.au/research/facilities/sydney-manufacturing-hub.html

Sydney Mass Spectrometry

Provides state-of-the-art tools and expertise for proteomics, metabolomics and mass spectrometry imaging for the life and biomedical science communities.

- **Mass spectrometry imaging (MSI)** suite offers the choice of DESI or MALDI methods for the detection and high-resolution visualisation of biomolecules in samples ranging from tissue sections to bacterial colonies.
- **Metabolomics** Apply the latest targeted and discovery workflows. Using liquid chromatography coupled with precision mass spectrometry, we can fully characterise the metabolome or lipidome of a sample using one of our dedicated LCMS systems.
- **Proteomics** Study the protein complement of cells, tissues and organisms. While the human genome has a little over 20,000 genes, the human proteome is estimated to contain over one million distinct proteoforms. Start exploring this complex and dynamic world with the assistance of our world class mass spectrometers.
- sydney.edu.au/research/facilities/sydney-mass-spectrometry.html

Sydney Microscopy & Microanalysis

Explore physical and biological structures at the micro, nano and atomic scales.

Our instrumentation and technical expertise are available for all researchers.

- sydney.edu.au/research/facilities/sydney-microscopy-and-microanalysis.html

Contacts

The Faculty of Science is structured with Associate Heads of Research located in each of the Schools.

For further information please contact your Associate Head or your Research Adminstration officer who can provide you with an information pack and assistance with your application.

School	Associate Head of Research	Research Administration Officer
School of Chemistry	Professor Chris Ling E: chris.ling@sydney.edu.au	E: chemistry.researchsupport@sydney.edu.au
School of Geosciences	Dr Maria Seton E:maria.seton@sydney.edu.au Professor Phil McManus E:phil.mcmanus@sydney,edu.au	E: geosciences.research@sydney.edu.au
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THE UNIVERSITY OF SYDNEY

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