The Reimagine Project – one of the most significant strategic endeavours ANU has ever undertaken – exemplifies our ambitions. It has my full support and backing as Vice-Chancellor and will ensure this unique institution is able to deliver on its contemporary mission as Australia’s national university, and one of the world’s greatest. If this sounds like a place you can come and make a contribution, we would be delighted to hear from you.

Professor Brian P. Schmidt, AC FAA FRS
Vice Chancellor and President
Thank you for considering the position of Director, Research School of Aerospace, Mechanical and Environmental Engineering at The Australian National University (ANU).

For over 72 years, The Australian National University has been the educational home to some of the most remarkable people from across the world: visionaries, influential leaders, researchers and individuals creating impact and change nationally, regionally and globally.

This coupled with our role as the national university means we have a responsibility to be ambitious, bold and transformative in our approaches to our research, teaching and outreach. Our proximity to Australia’s Federal Parliament enables our researchers to have a special relationship with the Commonwealth Government, providing expert advice to Australia’s leaders and decision makers, to ensure the advancement of the Australian nation.

Our strategic vision is to provide the next generation of leaders and global citizens with the skills required for the challenges and jobs of the future. The College of Engineering and Computer Science in particular will play a fundamental role in making this vision a reality with the University committing significant funding to transform and reimagine engineering and computing at ANU.
The role of Director, Research School of Aerospace, Mechanical and Environmental Engineering within the ANU College of Engineering and Computer Science, together with the College Executive team, will work to this intellectual agenda and provide the strategic leadership required to advance the University’s reputation as one of the world’s great universities.

If you are an exceptional researcher with a passion for teaching; if you are energised by the challenges that the next century will bring, and want to inspire and develop a new generation of engineers and computer scientists, then we encourage you to apply.
We will inspire a new generation of high-potential, creative people to come to engineering and computing with a diverse range of interests, motivations, perspectives and career aspirations.
The Reimagine Project: reimagining the future of engineering and computing

ANU has embarked on a major initiative to reimagine the role of engineering and computing in the 21st century. Our lived experience is increasingly one of large-scale systems of people, whose actions and interactions are influenced by our digital, physical and biological environment. We and our technology are highly interconnected and yet highly diverse. Somebody, somewhere designed, built, and operates almost everything.

Our world needs people who are experts at designing and safely operating the engine that is composed of all of us – our society. They will need to be expert thinkers about how to safely design and operate highly heterogeneous and interconnected systems of natural and made things, IT and people – at scale.

We will reimagine the traditional engineering and computing disciplines. We believe the role of engineers and computing experts in the 21st century is to bring together expertise on people, technological systems and science. We will not step away from the need to master a coherent foundational body of knowledge, and we will not be confined by old disciplinary boundaries as we give shape to new bodies of knowledge. At its core, we will equip our people to ask the right kind of questions from a people-centric, technological and scientific perspective.

We will nurture those people to go out into the world to find the right kinds of problems, and solve them in ways which are truly transformational.

We are looking for people who believe in the same things we do and who want to create something exceptional. Unlock your imagination and reach out.

Professor Elanor Huntington
Dean
ANU College of Engineering and Computer Science
Director, Research School of Aerospace, Mechanical and Environmental Engineering
This is a once-in-a-career opportunity to create a world-leading research school.

The Research School of Aerospace, Mechanical and Environmental Engineering (RSAMEE) must meet the national and global need for a new type of engineering School, fit for the middle of the 21st century, and requiring the educational and research program to match. As the foundation Director of RSAMEE, you will lead academic staff to achieve research, educational and policy excellence.

Your responsibilities will include academic leadership and management of the educational, financial, physical and staff resources of the School. You will lead the collaboration of broad research disciplines to enable the School to achieve excellence in alignment with College objectives, and you will develop and maintain external engagement with the wider College, the University and external partners, government and industry.
Our values and support for you

Our commitment is to create an environment and culture that is supportive of the most creative and imaginative ways of reframing, thinking, being and doing to address the highly complex human, system, digital and physical problems our society faces, including those we have not yet anticipated.

Our role is to help orchestrate new thinking and new opportunities by bringing together a wide range of expert thinkers in related areas in such a way that old boundaries fall away and new discovery happens.

We will support you in collaborative endeavour. We will support you when this gets difficult and even when it fails. We will support you when you identify gaps that we can help to fill. We will support you when you are supporting others and building capacity and teams around you. We will support you in building an inclusive, positive and supportive environment that rewards brave new ideas that break new ground.

We will define, resource and reward success for individuals and teams in creative and different ways and we will recruit to compose teams.
About you

Your unique contribution

You will:

> Set new expectations of excellence, inspiring existing and future faculty, students and partners.
> Have the breadth of vision to bring together expertise on people, technological systems and science.
> Bring additional networks that can enhance and complement the development and delivery of the Reimagine project.
> Deliver and connect well across domains of expertise and support others in doing so.
> Bring a passion and expertise for new models of learning and will know how to equip the next generation of STEM leaders to think differently.
> Be an expert thinker with deep expertise in a relevant discipline.
> Be a proven collaborator and team builder, supporting the success of others.
> Bring expertise in creating and sustaining a positive, inclusive, supportive and creative culture where failure is part of the learning experience and success is celebrated collectively.
> Bring leadership to the role, modelling behaviours and inspiring others.

Your approach

You will:

> Embrace diversity.
> Be motivated by a desire to reimagine the future of the combined fields of engineering and computer science, solving complex problems and making a positive difference to the world we live in.
> Be purpose-driven, want to keep learning and will bring your whole self to achieving team success.
> Understand why diversity is essential to creativity and model a truly inclusive approach to others.
> Be brave, resilient, and accepting of failure in yourself and others.
> Model high levels of integrity in all your interactions.
> Do things differently as much as you will do different things and you will understand why this is as much about outlook and behavioural attributes as it is about domains of expertise.
> Be an outstanding and inspiring communicator, including embracing new forms of communication and social media.
> Be motivated by a desire to reimagine the future of the combined fields of engineering and computer science, solving complex problems and making a positive difference to the world we live in.
The formal bit

Professional and personal attributes

You will have:

> An international reputation for expertise and intellectual leadership in a relevant area.

> Proven ability to set a positive, creative and inclusive culture along with both behavioural and performance expectations.

> Experience in models of learning and engagement that will support engineers and computer scientists to think differently.

You will be:

> Purpose-driven with a desire to reimagine the future of engineering and computer science.

> A divergent thinker with proven impact on a complex problem.

> A natural collaborator, able to deliver and connect across domains of expertise with existing networks in place.

> A leader and outstanding communicator.

> Brave, resilient, creative, inspiring, inclusive, energising, positive, honest and generous.
We’re keen for you to have the chance to demonstrate both the impact of your research and your enthusiasm for joining us in reimagining the future of Engineering and Computer Science.

Please prepare the following application material:

1. Your CV (non-academic and non-traditional CVs are welcome).
2. Evidence of the impact of your portfolio of work, which may include research, course facilitation and outreach (this can be in case-study form).
3. A written reference from an external party who can describe the impact of your research.

Find out more about staff equity at ANU.
What life will be like

The Canberra advantage

Canberra has the power to surprise, with its abundance of fine food, wine, art, culture, ideas and innovation. As an evolving city, this element of surprise continues even once you’ve made Canberra your home, with new developments, events and opportunities constantly emerging to keep life interesting.

Proximity to power and policy

Our unique location in Canberra creates an enriched teaching and research environment, giving our researchers and students access to the nation’s political and policy-making community.
World-leading quality of life

Canberra is designed to maximise the quality of life. Built on a blueprint that connects people with community and nature, Canberra provides you with the opportunity to create a unique work/life balance, wherever you choose to live. Canberra was rated number three in Lonely Planet’s ‘Best in Travel’ (2018), the best city in the world for well-being (OECD 2014) and top 25 in the world by QS Best Student Cities (2017). Living in Canberra means you’ll enjoy a high quality of life in a city with one of the best educated workforces, highest average full-time income and lowest unemployment rate in Australia.

For more information about life in Canberra: visitcanberra.com.au

A unique environment with unrivalled access

Our healthy appetite for outdoor pursuits is enhanced by the natural resources available, from sailing on Lake Burley Griffin, mountain biking at the world class Mount Stromlo facility, heading up to the Snowy Mountains for a day on the slopes or down to the spectacular beaches of the NSW South Coast.

We are also home to most of Australia’s major national cultural institutions, with whom the University has a close relationship, and a cultural calendar overflowing with international exhibitions, arts festivals and entertainment.
Dr Elizabeth Williams
Research Fellow
Autonomy, Agency and Assurance Institute

I was attracted to the 3A Institute because of the opportunity to help create a new applied science that might directly and positively impact humanity. I’ve been working in the Institute since April 2018, and I feel like my colleagues and I on the research team are already making steps towards achieving this goal. It’s been an incredible experience thus far. I love working in an interdisciplinary team -- we all bring very different backgrounds and perspectives to each research question, which means we’re all learning, questioning every assumption, and coming up with interesting new ideas on a daily basis. More broadly, I really enjoy being part of the campus community – the students are diverse and highly motivated, campus is vibrant, and home is a short and lovely bike ride away.

Associate Professor
Antonio Tricoli
ARC DECRA, WESTPAC Research Fellow
School of Electrical, Energy and Materials Engineering

Upon joining the College of Engineering and Computer Science as a lecturer in 2012, I had the opportunity to experience a stimulating and rapidly growing research environment. The unique early-career stage freedom, autonomy and mentoring offered at ANU are great assets that have greatly contributed to my personal and academic development. I have appreciated the welcoming research culture and mindset that are a substantial support toward the achievement of ambitious goals.
I was pleased and excited to be offered this opportunity—both to be at The Australian National University, Australia’s premier research university, and to help build national capability in such a key area of Australia’s future.

Cyber security is a field that sits at the intersection of people, technology, organisation, society, economics and security. The Cyber Institute offers the opportunity to bring people and ideas together from across a wide range of disciplines, backgrounds and endeavours to drive innovation, meet immediate needs and shape how we, as a nation, position ourselves for the future.

When returning to Australia in 2010, I was looking for an academic research environment that encouraged research excellence, collaboration, and exposure to top quality students. I found that at the Research School of Computer Science at the ANU and its close ties with NICTA (now Data61). ANU has been a place where I can focus on building world-class research with my peers, engage with other academic and industry partners, and develop innovative teaching programs to motivate and excite some of the best students in the world. The informal mentoring that I have received from senior academics and support from the College leadership has been invaluable in allowing me to win numerous competitive grants and industry research contracts. And while Canberra may seem a long way from the rest of the world, the generous travel grants and reduced teaching load in my first few years allowed me to stay close to international colleagues. Looking back, I am confident that I have chosen the right place to build my research career at one of the world’s top universities.
Employee benefits

The Australian National University provides a number of employee benefits for eligible employees.

Family friendly workplace

> Generous parental leave provisions – up to 26 weeks at full pay plus 6 weeks of career re-entry leave
> On-campus childcare with the option to deduct payment from pre-tax salary
> Flexible working arrangements
> Breast feeding facilities
> Dual career (spousal) hires.

Career and professional development

> In-house and external staff development opportunities, including individual coaching program
> Support for caring responsibility to attend conference/seminar
> Outside Studies Program
> Support for individual career planning/counselling services
> Staff undergraduate and postgraduate scholarships
> Career development leave program
> Informal and formal mentoring.

Salary packaging

> Novated (car) leases
> Airline membership – Qantas and Virgin Australia
> Laptops, PDAs
> Parking – eligible staff are able to apply for permits for on-campus parking
> Superannuation.
Health and wellbeing

- On-campus staff counselling service
- Independent and confidential Employee Assistance Program
- On-campus fully accredited primary health care facility – free flu vaccination
- ANU Fitness Centre – gym and group fitness classes
- Wellbeing programs for staff e.g. women and men’s health checks
- Dedicated Work Environment Group to support staff with work, health and safety matters.

Campus life and facilities

- Cafes, banks, ATMs, chemist and bookshop
- ANU is a smoke-free campus
- Access to University libraries – five in total
- ANU GreenShare car service
- Campus bicycle fleet and a network of walking and bike paths around campus
- ANU Green Unit to help reduce our carbon footprint
- Corporate discount for rental cars
- Vehicle Servicing and Maintenance with Autoco Belconnen – free pick up and drop off from the ANU
- Well established and maintained precincts for acoustic and other events e.g. University House, Llewellyn Hall and Cultural Centre
- Well maintained gardens and sporting/recreation facilities.

Salary and rewards

- Contribution of up to 17 per cent superannuation (in addition to base salary)
- On-campus Unisuper consultant available for general advice on superannuation
- ANU staff health insurance plan with HCF for Australian resident and non-resident staff
- Recognition of prior service with another Australian university or Commonwealth authority.

Learning communities

Student-led organisations inclusive and open to everyone. These communities encompasses areas such as:

- Creative arts
- Cultures
- Global challenges
- History
- Sustainability.

For additional information, contact

The College of Engineering and Computer Science Human Resources

E hr.cecs@anu.edu.au
About us

A world-leading university

The Australian National University is one of the world’s foremost research universities.

Distinguished by its relentless pursuit of excellence, the University attracts leading academics and outstanding students from Australia and around the world.

Further information about ANU can be found at www.anu.edu.au/about.

History

The University was established by the Commonwealth Parliament in 1946 specifically to lead the development of the intellectual capacity of the nation through research and research training in line with the best international standards. It is the only Australian university established by a Commonwealth Act of Parliament. In 1960, the University accepted responsibility for undergraduate education along with an expectation that the highest standards of education would be achieved.

Scale

The University has 4,300 staff, 10,286 undergraduates and 6,925 postgraduate students. Its annual revenue exceeds $1 billion and consolidated assets are worth $2.5 billion.

Research-intensive education

As the specially-chartered national university, the University conducts research at the highest levels in all of its colleges, and offers a unique research-led education to undergraduate and postgraduate students as well as postdoctoral fellows.

The University advances the national intellectual and creative capacity in three key ways:

1. Through broad-based research and research-intensive education in the disciplines fundamental to all knowledge: the humanities, the sciences and the social sciences.

2. By supporting research and research-intensive education in a spectrum of professional disciplines.

3. By studying Australia in its various contexts.

The University aims to achieve its objectives by creating an inspirational working environment for all staff, students and visitors. In each of its endeavours, the University strives to achieve at the levels of the world’s great universities.
Location

The University campus has over 200 buildings and occupies 145 hectares adjacent to the city centre of Canberra. The University also has a number of smaller campuses:

> Mount Stromlo Observatory (west of Canberra)
> Siding Spring Observatory (near Coonabarabran, western New South Wales)
> North Australia Research Unit (Darwin, Northern Territory)
> Kioloa (coastal campus near Bawley Point, on the New South Wales South Coast)
> ANU Medical School – The Canberra Hospital campus – ANU Medical School – Calvary Hospital
> Health facilities in south east New South Wales.

Partnerships

The University has strong links with leading research institutions in Australia and overseas. It is a founding member of the International Alliance of Research Universities, a co-operative network of ten eminent international research-intensive universities which includes:

> University of Cambridge
> University of Oxford
> University of California, Berkeley
> Yale University
> Peking University
> National University of Singapore
> University of Tokyo
> University of Copenhagen
> ETH Zurich.
The ANU College of Engineering and Computer Science has a strong international research reputation, a vibrant research-led education program and has impact in the world.

The College is leading the Reimagine Project, a major strategic priority for ANU over the next decade. It is a unique opportunity to reimagine the future of engineering and computing.

We will build on our proud tradition of excellence in research and creativity in quality education to frame new thinking about and solutions to the world’s most complex human and technological challenges. Through Reimagine, the College of Engineering and Computer Science will grow nearly three-fold, inspiring a new generation of creative thinkers and challenging historic biases through an inclusive environment we will create together.

Not only are we investing in our people and students, but also in a world-class infrastructure and ethos. Reimagine will markedly transform the physical and digital environment, research, learning and collaboration spaces on campus.

We do not underestimate the scale or complexity of our ambition. We are fully aware that tripling the size of engineering and computing in a world-leading university in order to completely reorient and reimagine the future of these disciplines is a unique undertaking. Our hope is that you will share our passion, drive and commitment and join us to realise this incredible undertaking.

We are offering the right candidate the opportunity to join us at the very early stages of this endeavour and the chance to help shape every aspect of the environment from the physical infrastructure right through to our culture and ethos. Nothing is ever a blank sheet of paper, but this is a unique opportunity to get very close to that, with the support and backing of a fully committed, world-leading research university around you. We have the strategic and financial backing of this great university and we are ready to launch.

View the Reimagine Project
Our global reach

You’ll join an esteemed group of partners with connections across the globe including partner universities, research collaborations and industry leaders.

**Collaborative industry connections across the globe**
- Boeing – Seattle, USA
- Intel – Santa Clara California, USA
- Ford Motor Company – Melbourne
- Google – Menlo Park California, USA
- GHD – Canberra Office
- Commonwealth Bank – Sydney
- Airbus – Toulouse, France
- Mitre Corporation – Massachusetts, USA
- Sony – Tokyo, Japan
- Facebook – USA
- Australian Signals Directorate – Canberra
- Australian Taxation Office (ATO) – Canberra
- Austrac – Canberra
- Australian Securities and Investments Commission (ASIC) – Canberra
- Australian Institute of Health and Welfare – Canberra
- ACT Government – Canberra

**Engineers Without Borders (EWB) projects**
- Nepal
- India
- Cambodia
- Malaysia

**Example collaborator universities**
- Harvard – Cambridge, Massachusetts, USA
- Caltech – Pasadena, California, USA
- University College London – London, UK
- University of Waterloo – Canada
- Technical University of Munich (TUM) – Germany
- City University – Hong Kong
- Peking University – China
- Nanyang Technological University – Singapore