2024

THE UNIVERSITY of ADELAIDE

Research shaping the future

Faculty of Sciences, Engineering and Technology - Research Strategy

GROUP OF EIGHT AUSTRALIA

make history.

The Faculty of Sciences, Engineering and Technology acknowledges and pay our respects to the Kaurna people, the traditional custodians of the Adelaide Plains.

We acknowledge the exceptional contributions the Kaurna people have made to cultural, economic and scientific domains, incorporating their knowledge of the ecology and history of South Australia to achieving sustainable development.

Our commitment to reconciliation is represented by the University's Kaurna Learning Circle & Karrawirra Parinangk, designed and produced by the staff and students of the Faculty.

Research shaping the future

The University of Adelaide and the Faculty of Sciences, Engineering and Technology (SET) is committed to producing research with excellence, curiosity, and impact. We are growing human knowledge and ultimately improving the lives of all.

We are committed to delivering our strategic ambition:

Discoveries that deliver impact.
Solutions that shape the future.

Research Shaping the Future is aligned with the University's Strategic Plan, Future Making, and complements the suite of FAME Strategies designed to support the University and Faculty's mission to deliver cutting-edge research and generate the solutions to grand challenges.

Introduction from the Executive Dean

The University of Adelaide has a proud history as a global leader in producing world-class research excellence. As one of the University's three faculties, SET has garnered recognition for its pioneering and impactful research.

In an increasingly interconnected and complex world, it is of paramount importance to continue to strengthen our disciplinary knowledge and refresh our research priorities. That is the unique opportunity that our reformed Faculty structure brings to us. By deepening our understanding and expertise within specific fields of research, we are better equipped to tackle and provide the solutions to the intricate challenges that we face.

Research Shaping the Future is a summary of who we are and where we are going to achieve our research ambition for the future. Through the establishment of SET and bringing researchers from across the University together, we have the unique opportunity to align the aspirations and priorities of those across the research spectrum to challenge and grow knowledge and produce research with impact and purpose.

Research Shaping the Future celebrates not only our research outputs but also the people who drive them— our researchers, our technical and professional staff, and our partners who contribute to our collective mission. Through six key objectives, we will champion initiatives that enable and embolden our people and our partners to contribute to addressing the current and future challenges we face.

I want to thank you for your contributions to our research strategy and I encourage you to remain bold and inventive in your efforts to transform the world for the better.

Professor Katrina Falkner

Executive Dean Faculty of Sciences, Engineering and Technology

The Faculty of SET at a glance

8 Schools

The Faculty incorporates the following schools:

- School of Architecture and Civil Engineering
- School of Agriculture, Food and Wine
- School of Animal and Veterinary Sciences
- School of Biological Sciences
- School of Chemical Engineering
- School of Computer and Mathematical Sciences
- School of Electrical and Mechanical Engineering
- School of Physics, Chemistry and Earth Sciences

6 Institutes

The Faculty has established links with the following Institutes in order to achieve outcomes:

- Australian Institute for Machine Learning (AIML)
- Environment Institute (EI)
- Institute for Photonics and Advanced Sensing (IPAS)
- Institute for Sustainability, Energy and Resources (ISER)
- Robinson Research Institute (RRI)
- Waite Research Institute (WRI)

1,500+ people | The faculty is home to more than 1,500 academic and professional staff who contribute to, and support, research, teaching and engagement.

1,000+ | Higher Degree Research (HDR) Students

$147M+ | Research funding (2022)

8 Cooperative Research Centres (CRC)

17 Research Centres

7 Centres of Excellence (COE)

3 **Campuses** North Terrace, Waite and Roseworthy

Addressing grand challenges

The Faculty of Sciences, Engineering and Technology is committed to providing an environment where researchers can generate the knowledge and solutions to solve global, national and state challenges.

The following represents the research challenges that sit across a **global, national and local level** and the impact that they will have on our entire society. It is critical that we understand these challenges and align ourselves to our partners and communities to provide the evidence-based, long-term solutions to these grand challenges.

Climate Change

The increased frequency of climate change-induced events is **causing significant environmental and economic damage.** To address this challenge, **advanced climate action strategies and the deployment of renewable energy technologies** are urgently needed.

Advances in Machine Learning

Advancements in **AI, automation, and digital twins are transforming industries and society while also raising complex ethical and societal issues related to their impact on jobs, data privacy, and responsible use.** Managing the increasingly sophisticated and growing risk of cyber attacks requires **effective cybersecurity strategies and investments in secure data management technologies.**

Space Exploration

Addressing the challenges faced by long-term planetary exploration is critical to ensure space exploration is sustainable. Opportunities include enabling off-Earth habitation by developing **transformative solutions, such as cultivating space plants.** Challenges in space exploration include **space debris, risk of collisions and radiation exposure, and preventing the militarisation of space.**

Biodiversity Loss

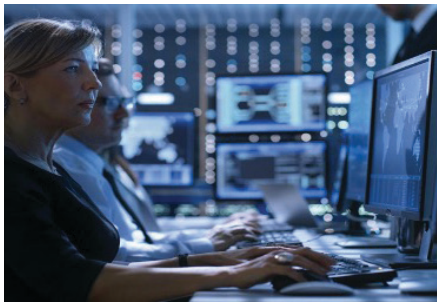
The loss of biodiversity has far-reaching consequences for the **health of the planet,** with impacts on **ecosystems, economies, and human wellbeing.** To address this challenge, it is crucial to prioritise the **preservation and restoration of ecosystems,** and to take action to mitigate threats to biodiversity.

Biosecurity

Safeguarding agricultural and natural systems from **pests, weeds, contaminants and invasive species** is critical for food security and economic stability. Developing robust biosecurity measures in agriculture is critical to protect crops, livestock and ecosystems from **emerging infectious diseases.**

Responding to national and local priorities

The following represent a summary of current priorities for our national and local communities and partners respectively. Using this national and local lens can help us identify the challenges that we face and the role our research has in providing new knowledge or solutions to address them.

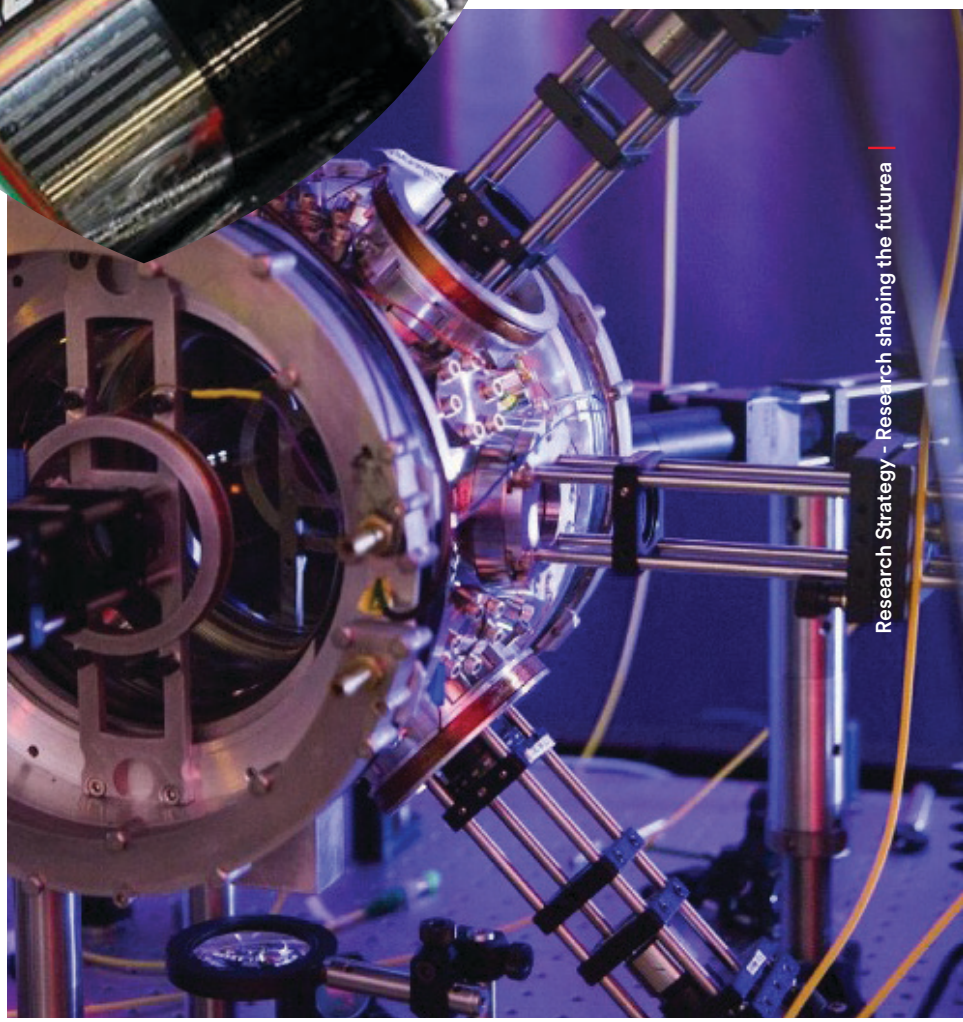


National priorities

- **Accelerating quantum systems** to boost research and development capabilities, advanced national security and drive innovation
- Developing **innovative biomedical equipment and bio-engineering methods**
- **Addressing 'one health' and the issues at the interface of humans, animals, and the environment**
- Building **sustainable housing that is accessible and affordable**
- Securing Australia's **water future through effective management and allocation of water resources**
- **Transforming the workforce for tomorrow** in the face of ongoing labour shortages
- Strengthening our **defence and security capabilities**
- **Achieving climate restoration** through **CO_2 removal**

Local priorities

- Powering the state through **renewable energy sources,** such as **wind and solar, while also investing in hydrogen projects**
- Sustaining South Australia as a leading hub for **defence and space** industries
- Leveraging technology and sustainable practices to develop **innovative food systems**
- Transforming **mineral extraction** and use by developing sustainable mining practices
- Increased access to services **for remote and rural communities by investing in digital infrastructure**
- Cementing the state's position as a **national leader for photonics**
- **Reducing net greenhouse gas emissions** by more than 50 per cent by 2030 and achieving net zero emission by 2050



Our 'Research in Focus' provides case studies that are included throughout the document to showcase how our distinct and emerging areas of our research capabilities are driving new research and innovation across our society.

University of Adelaide leading the Recharge, Reuse, Recycle revolution

To achieve the target of net zero emissions by 2050, sustainable energy solutions are necessary. However, the production of electric technologies and vehicles requires a significant amount of lithium for batteries.

While the current lithium reserves in the ground may appear limited, the use of "urban mining," which involves extracting valuable resources from waste, is providing an alternative stockpile of this critical mineral. The creation of next-generation batteries that offer improved safety, longer lifespan, and high recyclability can come from existing stockpiles of electronic waste and through recovering precious metals through unique mechanical and chemical treatments.

Embracing urban mining reduces the reliance on primary resource extraction, extending the lifespan of valuable materials. This approach contributes to a more efficient and environmentally friendly use of materials throughout their lifecycle.

Building a future global quantum network through optical glass and fibre innovations

The development of cutting-edge optical glass and fibre innovations is spearheading breakthroughs in quantum technology, paving the way for a future with incredibly high-speed internet connections.

Optics plays a crucial role in quantum technology due to its ability to manipulate and control light at the quantum level. We can use lasers and other optical tools to distort and create unique light patterns that carry large amounts of information faster and with greater protection.

The development of next generation fibre optic cables can enhance current internet capacity and unlock the immense potential of the future quantum internet. These advancements not only pave the way for a quantum-powered internet but also present valuable opportunities for Australia to establish sovereign capability in fibre fabrication for Defence.

Producing new treatments for infections in both humans and animals

Antimicrobial resistance poses a significant global challenge, as microorganisms evolve and develop resistance to the drugs intended to treat them. In light of this escalating threat, it becomes increasingly crucial to adopt a holistic 'One Health' approach to health, recognising the interconnectedness of human health, animal health, and the environment.

The key aspect of the One Health approach to addressing antimicrobial resistance is the understanding of transmission cycles between animals and humans. By delving into these cycles, we can unravel the mechanisms behind disease emergence, spread, and the development of resistance to antimicrobial drugs.

Applying this approach to infectious disease research in Australia yields valuable insights into disease dynamics and early detection. Consequently, it enables the enhancement of surveillance capabilities and the implementation of holistic treatment strategies and prevention measures.

Next generation plant design and production, for earth and outer space

Long-term off-Earth habitation is on the horizon but key challenges for mission planners still exist. Providing a nutritious, varied food supply during space habitation dominates the conversation around humanity's outer space future.

Breakthroughs in plant technologies and capabilities will also offer new plant efficiency solutions for challenging Earth environments such as low-water, high-saline agriculture, and low-input productivity options for food processing and storage. Intensive, but sustainable, Controlled Environment Agriculture production of plant-based foods can reduce agriculture's carbon footprint when linked to renewable power.

Food production in resource-limited environments, like space, will not only address the immediate challenges of sustaining human presence beyond Earth but also contribute to advancements in agricultural sustainability that can benefit our planet's future food security.

Our strategic ambition

Discoveries that deliver impact. Solutions that shape the future.

The Faculty's Research Ecosystem

The establishment of the Faculty of SET provides us the opportunity to further encourage disciplinary excellence, empowering our researchers to contribute to the progress of knowledge and fostering collaboration across the Faculty and University.

The Faculty is committed to delivering outstanding research that helps solve complex global problems and contributes to national priorities. Our research impact and outcomes are driven by our engagement with cutting-edge research institutes and the research activity across our eight schools.

As the Faculty looks to strategically align, connect, and enhance its research activities into the future, it is critical that it defines its research ecosystem to identify key thematic areas where it has scale and focus, or where there is rapid and sustainable growth. The intent of the Faculty's research ecosystem (pages 12-13) is not to duplicate the existing Faculty structure.

The research ecosystem has been informed by key research performance data, including the latest Faculty-specific data (this includes the total Category 1 - 4 Research Funding 2021 and 2022, partnerships, average annual number of HDR completions and alignment with national and state priorities) and has been validated with key members of the Faculty. Disciplinary expertise underpins these thematic areas.

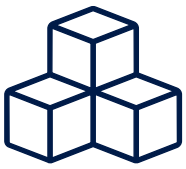
Research Ecosystem FOCI

Flagship Research Themes

Our Flagship Research Themes represent aggregated areas of our research excellence, scale and depth. The research within our Flagship Research Themes is built on collaboration across boundaries to generate new knowledge and create impactful innovations.

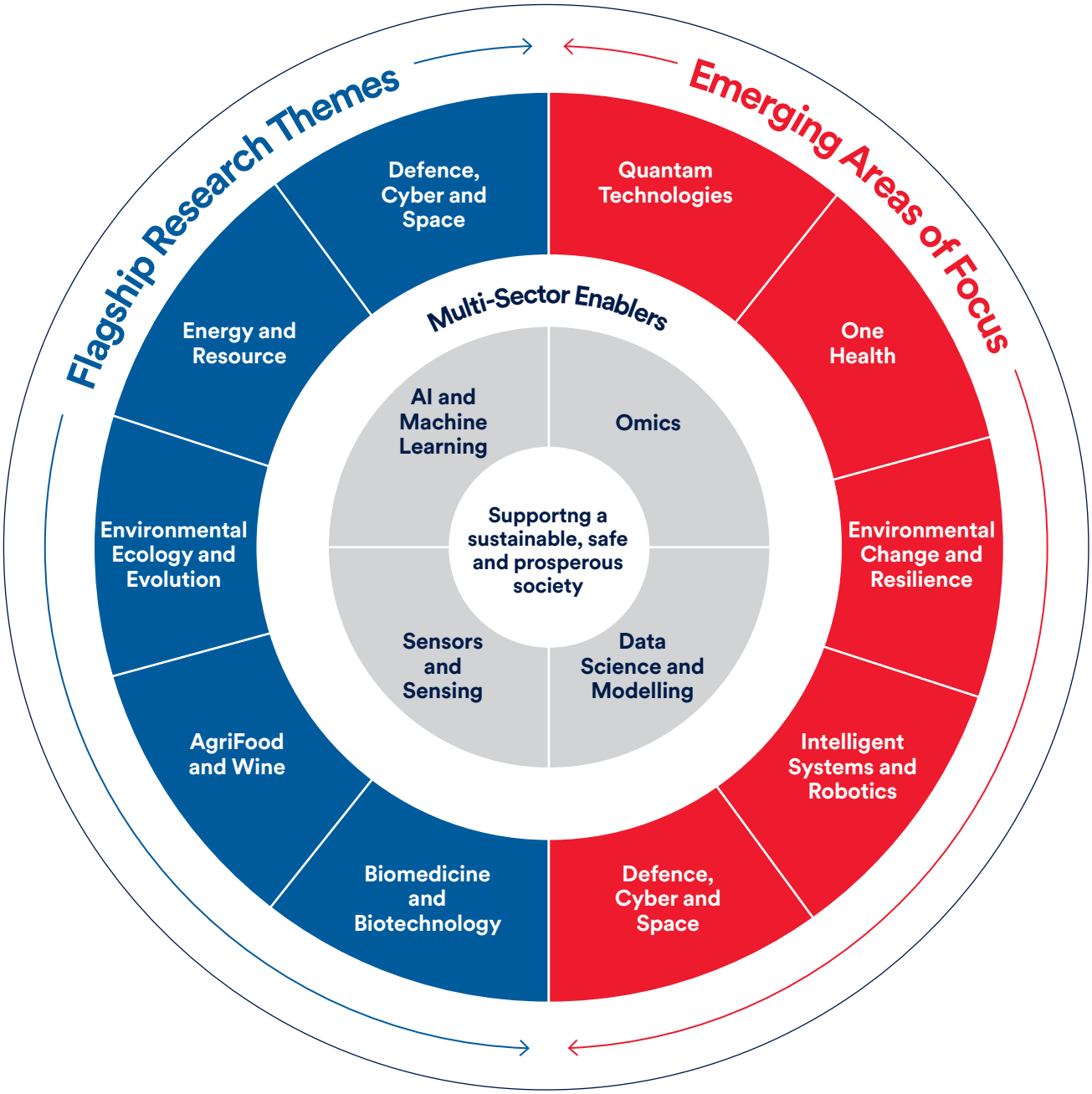
Emerging Research Areas

Our Emerging Research Areas represent our prioritised areas of research as a result of the identified national and local challenges. These areas encompass a range of disciplines and require innovative solutions to address their complexities.



Multi-sector Enablers

Multi-sector Enablers refer to a suite of research capabilities that enhance the quality of research across different sectors and disciplines. These enablers will allow our researchers to take a holistic view of research generation and production.



By outlining our research direction, our Faculty can create and prioritise key initiatives designed to support our sustainable future direction. All research activity is underpinned by a commitment to supporting a sustainable, safe and prosperous society. This commitment sits at the heart of the research ecosystem. The descriptions of the following flagship research themes, emerging areas of focus and multi-sector enablers are available in the Appendix.

Our research values

Achieve

Generating knowledge and research underpinned by excellence, integrity and curiosity.

Transform

Delivering unique solutions to local and global problems through transformative innovation.

Collaborate

Committed to collaboration and partnership to create value.

Lead

Fostering and inspiring excellence in the next generation of global leaders.

Our strategic objectives

As a future-focused Research Strategy, Research Shaping the Future, is our plan to position the Faculty in the best place to respond and leverage emerging research challenges and the opportunities ahead of us. This Strategy is comprised of six core objectives that are all designed to support, grow and amplify our research outcomes and impact.

Our future-focused strategic objectives

Our People

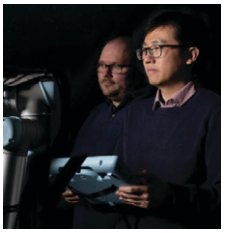
A collaborative research culture that values diversity and inclusion.

Our Partnerships

Partnerships to generate the solutions to the challenges of our time.

Supporting flagship research

Developing emerging areas of research focus and investing in new capabilities



Support the University's endeavours

Leading outreach and engagement

A collaborative research culture that values diversity and inclusion

Preserving a diverse, inclusive, and open Research Culture is fundamental to research production and enhances the societal value of universities. It promotes diversity of perspectives and exposes our researchers to different world views, enabling them to better understand the complex issues and challenges and lead to more innovative and creative solutions. We are dedicated to enhancing our Research Culture that encourages all our researchers and HDR students to share viewpoints and develop new and unique approaches that leads to high-quality research.

Research in focus: **Developing small innovations for big health outcomes**

The healthcare sector is undergoing a period of significant transformation, driven by shifting patient expectations and increasing demand for less invasive treatments. Smaller and innovative technologies offer new treatments that significantly enhance patient satisfaction.

Small health technologies give unique access inside the human body in a minimally invasive way which, until now, has not been possible using existing approaches. The development of innovations, such as 3D printed imaging devices the size of a single human hair, minimise invasiveness, reduce bodily impact and, overall, reduce recovery times. Embracing these technologies allows for tailored and patient-centric approaches.

Partnerships to generate the solutions to the challenges of our time

SET has an outstanding track record of working with industry, government, community and the non-profit sector to cultivate new ideas, produce real commercial results, and deliver high quality outcomes for global, national, and local communities. Our partnerships with organisations are underpinned in the pursuit of excellence and mutually beneficial outcomes, as we know that partnerships are fundamental to true research translation. To maximise our global impact and share in the benefits of our research, the Faculty is dedicated to enhancing and growing our partner network.

Research in focus: **Building drought resilience in our regional communities**

The increasing occurrence and length of droughts and the drastic changes in climate patterns are exerting a severe impact on South Australian regional industries and communities. These communities are facing multifaceted challenges, such as increasing water scarcity, crop failures and decreased yields, leading to job losses and unemployment, reduced access to finance, and mental health impacts.

Our research plays a crucial role in providing support to our regional communities. Researchers are creating drought planning guidance and water management strategies, as well as developing and supporting AgTech integration across farms, with the objective of enhancing drought resilience and recovery across all regional communities and industries.

Supporting flagship research

Sustaining research excellence is a critical pillar of the University and Faculty's mission. We recognise that to strengthen and grow our global reputation as a leader across science, engineering and technology, we need to continually enhance and expand our world-class research, with a focus on disciplinary excellence and its application in a range of innovative, collaborative research activities. We will continue to identify and prioritise ways in which we can enhance the quality and impact of our flagship research.

Research in focus: **Mining the critical metals vital to our clean energy future**

The ongoing and secure supply of certain minerals plays a pivotal role in facilitating our transition to a high-tech and clean energy-driven world. These minerals, often referred to as critical minerals, are essential components in various technologies, such as renewable energy systems, electric vehicles, and electronic devices. These minerals are crucial for the development of innovative technologies that can contribute to mitigating climate change and achieving sustainable development goals.

Research efforts have been concentrated on fostering the development of cost-effective, efficient, and sustainable exploration and extraction techniques. Technologies, such as in-situ leaching and bioleaching, extract key critical minerals with reduced environmental impact. Additionally, researchers are investigating novel exploration techniques, such as remote sensing and geochemical surveys, to identify new deposits in a more eco-friendly manner.

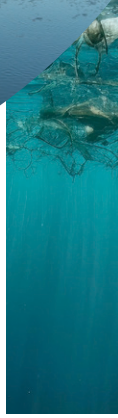
Developing emerging areas of research focus and investing in new capabilities

As the world faces unprecedented societal, environmental, and economic challenges, it is crucial to leverage our disciplinary excellence in the areas of emerging focus to generate new and transformative solutions. We acknowledge that in the pursuit of research solutions that can address today's challenges we need to sustain an environment that allows our emerging research areas to grow and develop into our leading research priorities. To ensure that our future-focused Faculty remains at the forefront of research, we are committed to investing in world-leading tools and technologies while fostering new and emerging research areas and diversifying our research capabilities.

Research in focus: **Improving projections of climate change impact through machine learning**

In recent years, the urgency to combat climate change has reached unprecedented levels, necessitating a greater understanding of its complex dynamics and more accurate projections of its potential impacts. The application of statistical machine learning techniques has shown great promise in enhancing the accuracy and reliability of climate projections.

The integration of satellite imagery has revolutionised climate research by providing unique observations of diverse atmospheric and environmental variables. This, combined with cutting-edge statistical machine learning techniques, empowers researchers to refine climate change projections with greater accuracy and granularity. This research-driven approach informs decision-making, policies, and adaptation strategies, effectively addressing climate change challenges.



Support the university's endeavours

Collaboration is essential to the Faculty's ability to achieve results and outcomes that advance research translation and its practical application in society. The current research environment places increasing importance on universities working collaboratively to drive innovation, resulting in increased productivity and prosperity for the partners and communities they serve. The Faculty recognises the critical role it plays in meeting the evolving needs of the state and nation, as well as unlocking future opportunities for the people. Through cross-disciplinary collaboration within and beyond the University, the Faculty remains committed to producing transformative translational research that benefits all.

Research in focus: **Safeguarding the environmental future of the Murray-Darling basin**

The Murray-Darling Basin plays a vital role in Australia's ecosystem and economy, making it crucial to implement measures that address climate, water, and environmental changes in the region. To achieve this, collaborative efforts between communities, government, and industries are essential. This collaboration includes promoting water conservation and management practices, fostering sustainable agricultural practices, and investing in initiatives to protect and restore the Basin's natural habitats.

Research plays a pivotal role in bolstering the region's capacity to effectively adapt to climate, water, and environmental changes. Through our research, we have a greater understanding of water usage patterns, climate trends, and ecosystem dynamics that enable evidence-based policy decisions and resource management strategies that better support innovation and adaptation in rural communities, resulting in more resilient farms and diversified income streams.

Leading outreach and engagement

The Faculty is committed to creating a positive impact through enhanced outreach and engagement, focusing on accessibility and support. Universities play a critical role in fostering communication, unity, and engagement in a world where disinformation, division, and exclusion can be prevalent. The Faculty recognises the importance of engaging with all members of the community, particularly those facing barriers to participation, and is dedicated to empowering individuals and communities to positively impact society. By promoting a culture of collaboration and inspiring the next generation of researchers, the Faculty aims to create a more inclusive, equitable, and thriving society for all.

Research in focus: **Breaking down plastics and debris in our oceans through chemistry and community**

Plastic pollution has rapidly become a pressing global issue, inundating our oceans, rivers, and landfills, posing significant risks to wildlife and ecosystems.

Utilising cutting-edge and environmentally friendly techniques, researchers are working with local communities to remove microplastics from Australian oceans using innovative solutions. Innovations, such as the application of tiny coil-shaped, carbon-based magnets, break down microplastics into harmless compounds without posing a threat to the wider environment. Technical expertise, hand-in-hand with communities, is improving the quality of Australian oceans.

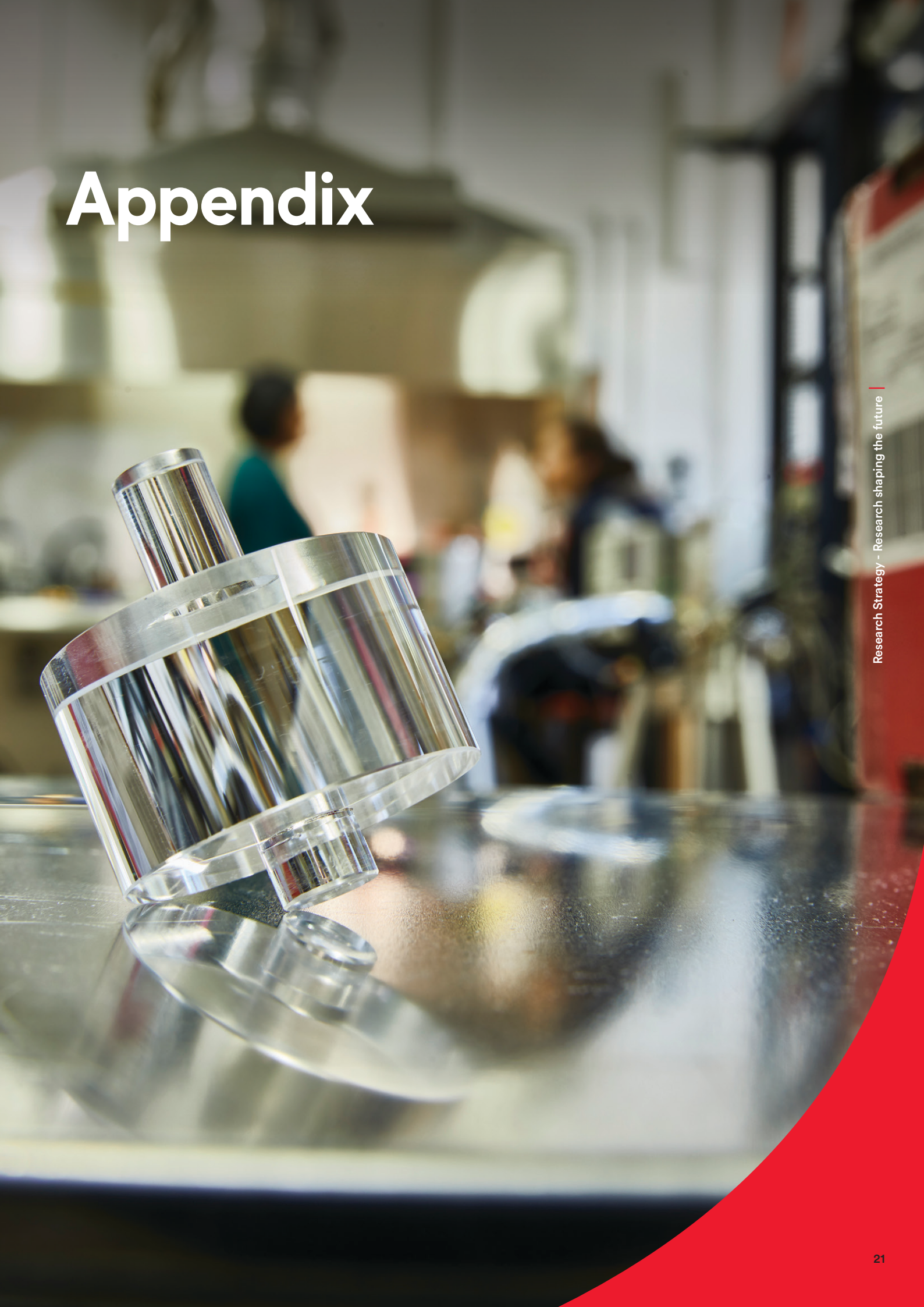
Local communities continue to play a pivotal role in advocating for sustainable practices, raising awareness about the environmental impact of plastic pollution, and encouraging responsible consumption. Our research has also highlighted the importance of education in driving behavioural change leading to positive results in reducing plastic waste generation. Strong community bonds and the promotion of shared responsibility are key factors in creating long-lasting impacts on plastic pollution reduction.

Research strategy initiatives

As part of delivering on the ambition of Research Shaping the Future, SET will implement the following initiatives within the Faculty and across the University to support all researchers and research activity in the pursuit of research excellence.

Objective	Initiative 1	Initiative 2	Initiative 3
Diversify and increase research funding opportunities in the pursuit of SET future revenue growth	Introduce and socialise Category 1 and Category 2-4 funding strategies for SET's revenue growth aligned to flagship research and emerging areas of focus, with a focus on high-quality submissions	Develop a strategic plan and roadmap to elevate key Faculty infrastructure and facilities with a focus on prioritised and targeted investment into state-of-the-art equipment and expansion of multi-sector enabling technologies	Develop a research communication strategy, including improved number of publications in Q1 journals and presentations at international research conferences to grow our reputation, support emerging researchers and identify new collaboration opportunities
Strengthen and diversify research partnership activities through a Research Partnership Strategy underpinned by core initiatives	Invest in and highlight our exciting research partnership opportunities across our flagship and emerging research areas, such as with South Australian Research and Development Institute and the Defence Trailblazer for Concept to Sovereign Capability, to maximise the Faculty's impact and reputation	Strengthen the alignment of our research activity with Research Institutes and major research funding schemes, such as Cooperative Research Centres and Cooperative Research Centres Projects to expand research opportunities	Intensify industry engagement and partnerships through research internship programs that support a broad range of research-to-career transitions
Foster greater research collaboration throughout the Faculty and across the wider University	Connect to opportunities that FAME strategies provide, working collaboratively across complementary areas of research	Strengthen alignment with other faculties through the use of core facilities and services to strengthen University-wide grant propositions	Establish internal research thematic groupings with thematic team leads, aligned with areas of focus, to exchange ideas in collaboration-focused physical spaces, and unique rewarding and recognition of interdisciplinary collaborative research
Build the capabilities of the next generation of SET leaders, particularly in our emerging and graduate researchers, through leadership, mentorship, and sponsorship programs	Develop a program to attract, retain and develop our high performing HDR students, incorporating training and mentorship programs and initiatives to support HDR collaboration, including the development of the Ingkarni Wardli HDR Student Hub	Grow emerging researcher representation across the Faculty through committee spaces for ECR, MCR and HDR researchers and the establishment of an ECR/MCR Faculty forum to advise leadership	Develop tailored training and professional development plans to support and empower academics at every stage of their careers
Support the delivery of community engagement and community capability development programs, particularly in our regional communities, to enhance the University's outreach	Develop a program of activities that supports engagement with emerging school leaver leaders.	Highlight the University's STEM opportunities through supporting researchers in the pursuit of external prizes and awards and internal initiatives, such as Superstars of STEM, the establishment of STEM internships and unique STEM Ambassadors	Strengthen our engagement with alumni and benefactors through quarterly networking events and our annual benefactors dinner

Appendix



Multi-sector enablers

AI and Machine Learning

Machine Learning technology is driving the “fourth industrial revolution.” AI & Machine Learning enhances existing processes and practices across industries. Our research is driving efficiencies in health, space, mining, defence, agriculture, construction and environmental sectors.

Data Science and Modelling

With increasing focus on quantification and evidence-based decision-making, our researchers are enabling insights from data to optimise operations, create innovative products and transform industries to improve people’s lives.

Sensors and Sensing

Our researchers, in partnership with industry, are leading research on photonic methods and solving complex measurement challenges across defence and security, health and biotechnology, agri-food and wine, space, and sustainable energy, mining and resources.

Omics

Our research investigates the intricate interactions of molecules that give rise to complex biological systems. Our research in human, animal and plant settings gives us an understanding of the responses to external stresses, including climate change. Our application in omics for human and animal settings supports stronger public health responses.

Flagship research themes

AgriFood and Wine

Increasing volatility in the production and distribution of agricultural goods requires a new age of thinking. Our researchers provide deep agricultural expertise together with new innovations to drive the future of global food and wine production and solutions to biosecurity challenges.

Environment, Ecology and Evolution

Humanity faces critical challenges, such as climate change, biodiversity loss, and sustainable resource use. Our research in Environment, Ecology & Evolution provides insights into how organisms adapt to their environment and helps create solutions for a sustainable future.

Biomedicine and Biotechnology

Combining science, engineering and technology, our biomedical scientists and biotechnologists create new ways to feed, fuel and heal the world to improve health outcomes and address local and global health challenges.

Defence, Cyber and Space

With heightened regional tensions, Australia is experiencing a period of significant economic and security transformation. The Faculty's expertise in emerging technologies is contributing to strengthening our domestic defence capabilities and safeguarding Australia.

Energy and Resources

We are driving the development and acceleration of clean energy systems to drive a global transition to a more sustainable world. The Faculty is also supporting the resources sector in implementing innovative and sustainable approaches to extraction and processing control.

Emerging areas of focus

Quantum Technologies

Quantum Technology is a disruptive enabling technology. Our research is focused on applications of Quantum Technology across fields, such as defence, animal and veterinary sciences, nanotechnology, electrical and mechanical engineering, and computer software.

One Health

As part of an emerging holistic understanding of global health, 'one health' integrates approaches to human, animal, and environmental wellbeing. Our research is driving linkages across animal sciences, ecology, public health, biological sciences and environmental sciences.

Environmental Change and Resilience

Environmental change and resilience is the study of how natural and human induced changes in the environment impact our built environment. Our research is helping generate new knowledge that supports policy and action on habitat reclamation and rehabilitation.

Intelligent Systems and Robotics

Our researchers are highly versed in the technological advances in Intelligent Systems and Robotics and the risks and ethical implications for society. Our research has been translated to deliver significant real-world outcomes, e.g. robots to remove space debris.

Materials and Advanced Manufacturing

Our research in Materials and Advanced Manufacturing is driving the creation of new quality products that are created accurately and consistently. Materials and Advanced Manufacturing encompasses 3D printing, additives, surface treatments, high-precision sensors, ultrasonic milling machinery, and prototype development.

Further enquiries

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Kaurna acknowledgement
We acknowledge and pay our respects to the Kaurna people, the original custodians of the Adelaide Plains and the land on which the University of Adelaide's campuses at North Terrace, Waite, and Roseworthy are built. We acknowledge the deep feelings of attachment and relationship of the Kaurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs. The University continues to develop respectful and reciprocal relationships with all Indigenous peoples in Australia, and with other Indigenous peoples throughout the world.