



GRIFFITH UNIVERSITY

CAPABILITIES STATEMENT

SCHOOL OF ENGINEERING AND BUILT ENVIRONMENT



Make it matter

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On the Cover

Ramia Jazdan, a determined and high-achieving dual degree graduate, is set to take flight in her career with a coveted spot in the Airbus Graduate Program as a Graduate Engineer. With her eyes firmly set on her ultimate goal of designing and flying her own aircraft, Ramia's journey is one of passion and perseverance.

Reflecting on her time at Griffith, Ramia says, "The program's strong focus on both engineering and aviation has provided me with a solid foundation in understanding aircraft systems, structural integrity, and the complex certification process. Through hands-on projects and industry placements, I've gained invaluable practical experience in design and testing, while developing a deep appreciation for the rigorous standards necessary to meet the demanding requirements of aircraft certification."

Ramia Jazdan

Bachelor of Engineering (Honours)/Bachelor of Aviation

Acknowledgment of Country

Griffith University acknowledges the people who are the Traditional Custodians of the land. We pay respect to the Elders, past and present, and extend that respect to all Aboriginal and Torres Strait Islander peoples

Important note: All information is subject to change as content is reviewed and updated.

SCHOOL OF ENGINEERING AND BUILT ENVIRONMENT

Since 1975 we've set out to be a different type of university, one that is committed to equity, inclusion and the success of our students. Today, these founding principles remain as relevant as ever. Our commitment to providing opportunities for all drives everything we do, from teaching and research to community engagement.

Our study and research are built on a strong footing of theory, reinforced by practical and hands-on experience. With state-of-

the-art facilities, cutting-edge technology, innovative and student focused teaching approaches, strong industry relationships and a culture that fosters empowerment; our School is producing graduates and creative and intelligent solutions for rapidly evolving workforces.

Leveraging from our achievements across disciplines, we are growing our capabilities of, and contributions to, the engineering, built environment and aerospace sectors.

OUR COMMUNITY

As part of the Sciences Group, the School of Engineering and Built Environment brings together architecture, industrial design, urban planning, aviation, civil and environmental engineering, electrical and electronic engineering, construction management and mechanical engineering disciplines. Our community spans across our Nathan, Gold Coast, Logan and Digital campuses, with over 2,600 students, 12 dedicated student clubs, 100 academics, and research institutes and centres.

Student clubs

- Engineers Australia Student Society (GUEASS GC)
- Griffith Aviation MATES
- Griffith University Architecture Student Society (GASS)
- Griffith Racing Team (GRT)
- Griffith University Aviation Association (GUAvA)
- Griffith University Soaring Society (GUSS)
- Griffith University LEGO Club
- Institute of Electrical & Electronics Engineers GC (IEEE GC)
- Institute of Electrical & Electronics Engineers NA (IEEE NA)
- Women in Engineering
- Women in Science and Education (WISE)
- Planning and Environment Griffith Students (PEGS)



OUR FACILITIES

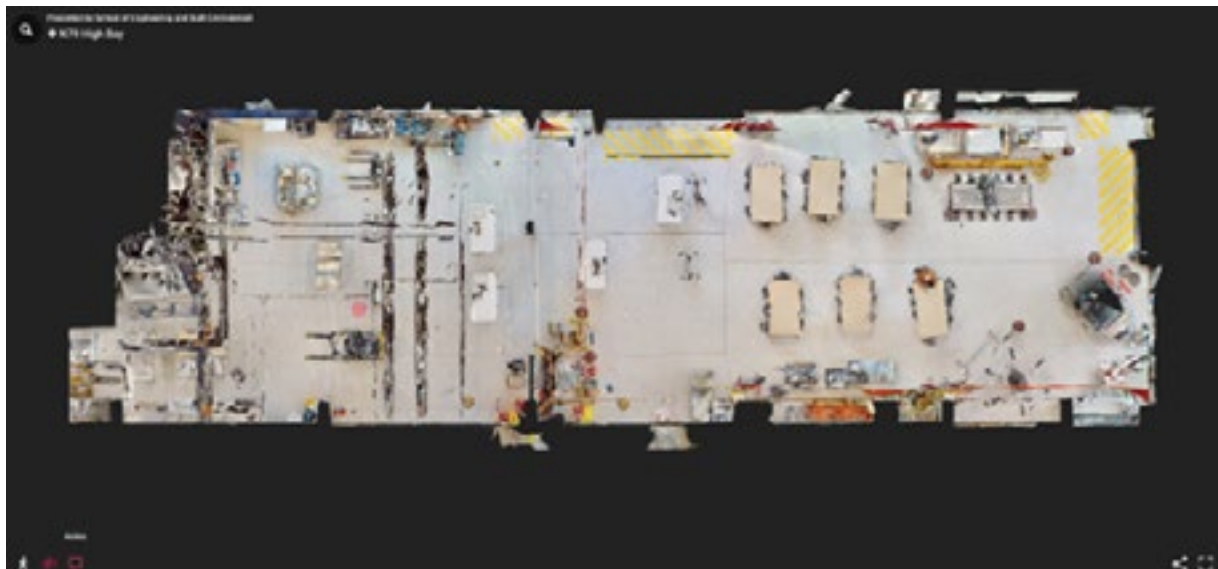
Our extensive facilities comprise of specialised labs, workshops and studios equipped with cutting-edge technology.

- Extensive structural and concrete test facilities
- HTC Vive VR Pro kit sets
- Simulation Lab
 - » 30 Oculus Go (VR)
 - » 6 Reverb G2 (VR)
 - » 6 Vive HTC
 - » 2 Hololens (AR)
 - » Space for VR Simulation
 - » 360 degree cameras
 - » Motion capture studio with force plates for movement and athlete studies
 - » High end desktop stations for software, AR and VR development
- Flight Procedures Lab
 - » 40 desktops for flight simulation, capable of VR, 3D modelling and other engineering platforms
 - » Hybrid delivery space
 - » Remote learning
- Dynamic triaxial soil testing system
- Static triaxial soil testing system
- Soil direct shear testing systems
- Temperature and humidity control room and chambers
- Custom designed wave tank and sand flume
- CNC HAAS machining centre.
- Two 14 m × 6 m strong floors
- 3T, 10T, 50T and 60T compression and tension load/displacement testing machines
- Instron E20000 Tension-torsion fatigue tester equipped with 2D Digital Image Correlation Software
- 250T Compression testing frame
- 500T hydraulic test and measurement equipment
- 30T and 300T self-reacting test frames
- Digital Image Correlation measurement system
- 3D concrete printing facilities.
- Composite filament winding facilities
- Aerodynamic test equipment (wind tunnel)
- Mechanobiology lab rated to PC2 specialising in haemorrhage, blood trauma and medical device testing
- 6 degree of freedom robotic manipulator for cadaveric and engineered specimens
- Particle Image Velocimeter for mapping fluid flows in liquids and air
- Microwave anechoic chamber with 20GHz vector network analyser for antenna testing
- Queensland Micro- and Nanotechnology Centre. State-of-the-art building housing class-100 and class-1000 cleanrooms, and unique silicon carbide processing equipment
- Design and 3D printing studios.
- Non-destructive acoustic and vibration testing

N79 HIGH AND MEDIUM BAY LABORATORY

Explore one of our specialised laboratory, the High and Medium Bay Lab located in Building N79:

[View laboratory here](#)





EXPERTISE AND RESEARCH

Research at the School of Engineering and Built Environment is focused on addressing global challenges through innovation, collaboration, and interdisciplinary approaches. We align our work with the United Nations Sustainable Development Goals (SDGs), tackling issues across key domains such as infrastructure resilience, renewable energy, advanced materials, aerospace technology, and digital transformation. Our partnerships with industry, government, and research institutions drive impactful solutions and real-world applications.

Sustainable Infrastructure and Resilient Cities

Our researchers are developing smart, sustainable solutions for urban infrastructure, climate adaptation, and disaster resilience. We focus on structural integrity, geotechnical engineering, and sustainable construction materials to create safer, greener, and more efficient built environments. Key achievements:

- Leading the ARC Industrial Transformation Research Hub for Advanced Timber in Australia's Built Environment, fostering innovation in sustainable construction
- Developing climate-resilient infrastructure strategies with Queensland Disaster Research Alliance (QDRA) and enhancing disaster preparedness and mitigation efforts
- Conducting cutting-edge research in sustainable construction materials and collaborating with Australian Forest and Wood Innovations (AFWI) and the ARC Research Hub to Advance Timber for Australia's Future, promoting the use of engineered wood products in building construction.

Advanced Manufacturing and Smart Materials

We specialise in additive manufacturing, composite materials, and nanotechnology, pushing the boundaries of materials science for applications in construction, aerospace, and medical technology. Key Achievements:

- Home to the Queensland Micro- and Nanotechnology Centre, featuring state-of-the-art cleanrooms and pioneering silicon carbide processing
- Developing 3D concrete printing technologies to revolutionise construction methodologies and reduce material waste
- Advancing composite materials for aerospace and defence applications in collaboration with Queensland Defence Science Alliance (QDSA), Gilmour Space and Boeing.

Aerospace and Transportation Technologies

Our aerospace and transportation research spans aviation safety, human factors, air traffic management, and electric vehicle integration. Key Achievements:

- Collaborating with Gilmour Space Technologies to develop materials and

advanced manufacturing techniques for space applications

- Conducting world-class aviation safety research, including pilot performance analysis and virtual reality flight training
- Working with industry leaders and government authorities (Department of Transport and Main Roads) to optimise transport infrastructure and intelligent transport systems for future mobility.

Renewable Energy and Clean Technologies

We contribute to Australia's energy transition by advancing technologies in solar, wind, bioenergy, and energy storage. Our focus includes grid integration, microgrids, and energy-efficient buildings. Key Achievements:

- Driving Griffith's role in the CRC RACE2030 (Reliable Affordable Clean Energy), a multi-million-dollar initiative for sustainable energy solutions
- Partnering with Blue Economy CRC

to develop offshore renewable energy systems for ocean industries

- Developing advanced biogas technologies in collaboration with industry to transform organic waste into clean energy.

Digital Transformation and Smart Systems

Our research leverages AI, machine learning, and digital twins to enhance engineering efficiency, sustainability, and decision-making. Key Achievements:

- Partnering with Bentley Systems to integrate digital twin technology across built environments, optimising asset management and urban planning
- Leading AI-driven predictive maintenance initiatives for infrastructure and utilities, enhancing reliability and reducing operational costs
- Developing sensor-based monitoring systems for applications in health, sports, environmental management and water network (Seqwater).





FIND AN EXPERT

Our world-class researchers work with industry, community and government partners to better understand our world and improve people's lives.



Find a Griffith expert: experts.griffith.edu.au

ARCHITECTURE, INDUSTRIAL DESIGN AND PLANNING

ARCHITECTURE

Dr Peyman Akhgar: Architectural design; architectural history.

Professor Joerg Baumeister: Ecological cities; oasis cities; sea cities.

Dr Edoardo Bertone: Water quality; machine learning; water treatment.

Dr Cecilia Bischeri: Architectural design and integration with urban form; technical and social integration in design; design for natural disasters; leader AecLab.

Mrs Jessica Blair: Temporary architectural installation; material practices and making; progressive pedagogical and practice methods.

Dr Ruwan Fernando: Computer aided design; building information modelling; evolutionary design strategies.

Dr Zuzana Kovar: Architectural design; urban design; contemporary theory; body space relations; leader AecLab.

Dr Despina Linaraki: Architecture; environment; biomaterials.

A/Professor Janice Rieger: Critical heritage, museum and archive studies; social design; architectural design; architectural history, theory and criticism; visual cultures.

Ms Teresa Wuersching: Architectural design.

Dr Fan Zhang: Indoor environmental quality; cognitive performance; thermal comfort; sustainable design; health and productivity.

INDUSTRIAL DESIGN

Dr Sam Canning: Advancing manufacturing technologies through Design.

Dr Kaecee Fitzgerald: Industrial design; sustainable practice; medical design; materials research.

Dr Natalie Haskell: Additive manufacturing; manufacturing processes and technologies; sustainable design; industrial and product design; built environment and design.

PLANNING

Dr Jenny Cui: Urban and regional planning and design; land use and spatial planning; built environment and health; transport planning and policy; environment and behaviour; planning, design and utilisation of urban underground space.

Dr Aysin Dedekorkut-Howes: Climate change adaptation; urban resilience; regional planning; growth management; sustainability.

Dr Tony Matthews: Climate change adaptation; institutions; urban and environmental planning; green infrastructure; urban consolidation.

Dr Natalie Osborne: Human geography; social justice; emotional geographies; spatial politics.

Dr Kimberley Reis: Local food resilience and contingency.

Dr Heather Shearer: Land use and environmental planning; geospatial information systems and geospatial data modelling; housing markets, development and management; urban geography; rural and regional geography.

AVIATION

Ms Marilyn Andre: Safety management; corporate and NGO governance.

Dr Guido Carim Junior: Human factors; safety management; safety science; safety analytics; cognitive work analysis; cognitive task analysis.

Dr James Cross: Virtual and mixed reality aviation training, education, and research; commercial pilot training; aviation safety; human factors.

Dr Sravan Pingali: Human factors; tourism; aviation psychology; avionics; pilot training.

Professor Tim Ryley: Air transport; environmental issues associated with aviation; aviation management, planning, policy and operations; human factors.

Dr Steve Scott: Human factors; safety management systems; flight and ground safety auditing; flight deck design; artificial intelligence systems.

Dr Bojana Spasojevic Sijacki: Air transport; tourism; air route development.

Dr Xiaoyu Wu: Aviation machine learning and A.I. application; data science; air traffic management; airspace and terminal procedure design; next generation national airspace system; aviation-wildlife coexistence; cross-culture training and education.

CIVIL AND ENVIRONMENTAL ENGINEERING

CIVIL ENGINEERING

Dr Kelly Bertolaccini: Public transport systems; equitable transport systems; spatial data; GIS.

Dr Jeung-Hwan Doh: Structural engineering; concrete and steel structures; sustainable building design; sustainable materials and technologies.

Dr Amir Etemad-Shahidi: Coastal engineering; renewable marine energy; hydro informatics; water quality modelling.

Professor Benoit Gilbert: Cold-formed steel structures; composite timber structures.

A/Professor Ivan Gratchev: Geotechnical engineering; rock mechanics; engineering geology; soil mechanics; engineering education.

Professor Hong Guan: Structural engineering; computational mechanics.

A/Professor Shanmuganathan (Guna) Gunalan: Aluminium structures; façade engineering; structures in fire; cold-formed steel structures.

Dr Fernanda Helfer: Water resource engineering.

Professor Dong-Sheng Jeng: Offshore geotechnical engineering; coastal engineering; renewable energy; numerical modelling.

A/Professor Hassan Karampour: Structural engineering; pipeline integrity; timber engineering; steel structures; offshore engineering.

A/Professor Erwin Oh: Geotechnical Engineering.

A/Professor Dominic Ong: Geotechnical engineering; ground improvement; finite element method; soil-structure interaction.

Dr Anisur Rahman: Reliability and engineering management; development of stochastic models of product/asset reliability; maintenance policies; sustainable infrastructure and risk management; climate change adaptation.

Professor Rodney Stewart: Smart metering; water end use; engineering management; water resources engineering; construction management.

Professor Bofu Yu: Hydrology; soil erosion.

Professor Hong Zhang: Coastal modelling; Coastal hydrodynamics; Flow in porous media; River plumes.

CONSTRUCTION MANAGEMENT

A/Professor Patrick Fong: Sustainable design; behavioral economics; building information modelling and management; automation and technology in construction.

Dr Tingting Liu: Construction procurement; energy efficient retrofit; social sustainability in construction.

Dr Sherif Mostafa: Digital transformation; smart infrastructure asset management; construction project management; engineering management.

ENVIRONMENTAL ENGINEERING

Professor Igor Agranovski: Aerosols; nanotechnology; air quality.

Dr Jennifer Campbell: Environmental engineering; water treatment; Indigenous STEM curriculum.

Professor Matthew Currell: Hydrology; Geochemistry; Isotopes.

A/Professor Ali El Hanandeh: Sustainable engineering; waste management; circular economy.

A/Professor Sunil Herat: Waste management.

Professor Prasad Kaparaju: Renewable energy; anaerobic digestion technology; biofuels, biorefinery and environmental bioprocesses and technology.

Professor Qin Li: Nanocarbon; carbon dots; water technology; hydrogen production and storage.

Dr Ruby Michael: Ecological engineering; phytocapping; landfill rehabilitation; green infrastructure.

Dr Jimmy Yu: Chemical engineering; environmental engineering.

ELECTRICAL AND ELECTRONIC ENGINEERING

A/Professor Andrew Busch: Image processing; machine vision; sport engineering; biometric identification; medical imaging.

Professor Sima Dimitrijevic: Semiconductor devices and circuits; design, fabrication, and characterisation of Silicon Carbide (SiC) and Gallium Nitride (GaN) based devices; circuits for conversion of electric power.

Dr Hugo Espinosa: Antennas and propagation; computational electromagnetics; electromagnetic separation of conducting materials; inertial sensors; wearable sensor technology for human monitoring in sports, health, and forensics; sports engineering.

Professor Yongsheng Gao: Biometrics; computer vision; pattern recognition.

Emeritus Professor Junwei Lu: Computational electromagnetics, power electronics and high frequency magnetics, microgrid and distributed energy system, electric machines and renewable generators.

Dr Faisal Mohd-Yasin: Computer process automation, data acquisition and collection, human-computer software interaction.

Professor Steven O'Keefe: Antennas; electromagnetics; drones.

Professor Kuldip Paliwal: Signal processing; speech processing; machine learning; Bioinformatics.

Dr David Rowlands: Sports; sports technology; sports engineering.

Dr Mohammad Sanjari: Renewable energy integration; local carbon energy network.

Dr Belinda Schwerin: Digital signal processing, speech processing, Electrocardiogram (ECG) and Phonocardiogram (PCG) signal processing, machine learning, deep learning and artificial intelligence.

Dr Andrew Seagar: Computational electromagnetics.

Dr Stephen So: Digital signal processing; speech coding; speech enhancement; distributed speech recognition; machine learning.

Dr Sascha Stegen: Power transmission; energy storage; electro-mobility; efficient energy usage; smart grids.

Emeritus Professor David Thiel: Communications engineering; antenna design and measurement; electromagnetics; sports engineering; wireless sensor networks; sensor development; geophysics; mining and mineral technologies.

Emeritus Professor Ljubo Vlacic: Decision and control systems; mechatronics; intelligent robotics; autonomous systems; co-operative intelligent transport systems; co-operative self-driving vehicles; automation, knowledge management.

Professor Fuwen Yang: Networked control systems; fault detection and diagnosis; health monitoring; microgrid control and optimisation; renewable energy integration.

A/Professor Yong Zhu: Mechatronics; microelectromechanical systems (MEMS) devices.

MECHANICAL ENGINEERING

Professor Dzung Dao: MEMS; NEMS; micro-nanomachining; nanostructured materials; sensors and actuators.

Dr Van Dau: Mechatronics; micro sensor and actuator; micro fluidics; electro fluid dynamics.

Professor Stefanie Feih: Lightweight structures; composite properties; structural design; additive manufacturing; polymer processing.

A/Professor Wayne Hall: Non-destructive testing (NDT) and structural health monitoring (SHM); materials and structural testing for automotive, marine, renewable energy and aerospace applications.

Mr Simon Howell: Project-based learning; employability in the curriculum, and the first-year experience.

Dr Zia Javanbakht: Composites; auxetics; computational mechanics; continuum mechanics; constitutive material modelling.

Dr Huaizhong Li: Manufacturing and machining technologies; machine vibration testing and control; mechatronics.

Dr Maksym Rybachuk: Materials science; light-matter interactions; plasma engineering; thin-film deposition; diamond.

Professor Shoujin Sun: Additive manufacturing; laser-aided manufacturing; laser materials processing; high-speed machining; metals and alloys.

A/Professor Peter Woodfield: Computational methods in fluid flow, heat and mass transfer; experimental methods in fluid flow, heat and mass transfer.



SCHOOL EXECUTIVE



HEAD OF SCHOOL

Associate Professor Andrew Busch is a researcher in machine vision, imaging, embedded systems, and AI, with a strong interest in industrial applications of this technology. This work has been used in applications such as medical imaging, sports engineering and smart farming systems for agriculture and aquaculture.

Andrew is passionate about engineering education and the student experience, working extensively on creating industry pathways for students. He plays a key role in shaping learning and teaching in the School of Engineering and Built Environment, first as Deputy Head and now as Head of School and program director of the Bachelor of Advanced Engineering (Honours).

experts.griffith.edu.au/7662-andrew-busch



DEPUTY HEAD OF SCHOOL, RESEARCH

Associate Professor Hassan Karampour is a Chartered Professional Structural Engineer and Fellow of Engineers Australia, with extensive experience in designing and constructing a range of structures, from residential buildings to large industrial projects. His expertise covers areas like structural stability, steel structures, pipeline integrity, and fluid-structure interaction. Hassan also teaches mechanical and structural engineering at both undergraduate and postgraduate levels and is dedicated to fostering greater industry involvement in education. He serves as an editorial board member for Ocean Engineering and Marine Structures with Elsevier.

experts.griffith.edu.au/8258-hassan-karampour



DEPUTY HEAD OF SCHOOL, LEARNING AND TEACHING

Dr. Belinda Schwerin is dedicated to advancing learning and teaching practices and specialises in using signal processing to improve health outcomes. Her research focuses on using signal processing to improve health outcomes, particularly through helping doctors and patients make better decisions. Early work in speech processing evolved into the analysis of biometric signals, such as electrocardiograms (ECGs). Belinda is currently exploring machine learning and deep learning in health and engineering, including collaborations with Gold Coast University Hospital on ECG-based arrhythmia classification and heart rate variability.

experts.griffith.edu.au/7739-belinda-schwerin



DIRECTOR (INTERNATIONAL)

Professor Prasad Kaparaju has over 22 years of experience in environmental engineering and waste management, specialising in biomass-to-biofuel conversion technologies, biomass pre-treatment, and renewable energy. He has led research projects funded by organisations like CRC RACE for 2030, ARENA, and the Australian Government's Department of Industry, Innovation and Science. Prasad was one of the first to demonstrate biogas production and upgrading to bio-CNG for vehicle fuel use in Australia. He also pioneered research on integrated biorefineries from lignocellulose biomass such as wheat straw.

Prasad is an expert in conducting workshops on renewable energy, sustainable energy systems, and biogas technology, and has provided waste management training for professionals in countries including Indonesia, Singapore, Vietnam, and Mongolia.

experts.griffith.edu.au/8666-prasad-kaparaju



SCHOOL MANAGER

As the primary advisor to the School Executive's team on all matters pertaining to the University, Group and School policies, operations and business processes, Margaret plays a pivotal leadership role in shaping and executing the School's strategic direction and operational priorities.

Margaret oversees the School's governance, strategic planning, compliance and resource coordination across technical and administrative functions. Working closely with the Head of School, she ensures efficient and aligned operations that support teaching quality and enhance the student experience.

Her leadership, strategic insight, operational expertise and commitment to excellence make her a critical enabler of the School's continued success within the broader University context.

linkedin.com/in/margaret-schiller-a238a346



HEAD OF DISCIPLINE, ARCHITECTURE, INDUSTRIAL DESIGN AND PLANNING

Associate Professor Dr. Janice Rieger is an Australian Research Council Research Fellow focused on co-designing inclusive environments and promoting ecologies of justice. With two decades of international teaching and 15 years in architecture and the built environment, her expertise covers housing design, accessibility, affordability, and policy, as well as museum and exhibition practice. Janice's work explores the intersection of art, architecture, and material culture, with a particular focus on spatial justice and inclusivity.

experts.griffith.edu.au/47627-janice-rieger



HEAD OF DISCIPLINE, AVIATION

Dr. Guido Carim Junior is a leader in aviation safety, blending theoretical and practical knowledge with extensive experience across various fields. He is a research member at the Griffith Centre for Social and Cultural Research and the Institute of Integrated and Intelligent Systems, where he leads initiatives in safety management systems, human performance analysis, and pilot training. Guido is dedicated to addressing key challenges in the aviation sector and creating industry opportunities for students.

experts.griffith.edu.au/8214-guido-carim-junior



HEAD OF DISCIPLINE, CIVIL AND ENVIRONMENTAL ENGINEERING

Professor Matthew Currell is a hydrogeologist specialising in environmental isotopes and tracers to study groundwater processes, particularly in areas facing contamination and over-extraction. He has published over 70 peer-reviewed articles, served on the editorial board of Hydrogeology Journal, and acted as an expert witness in public inquiries and court proceedings. Matthew is on the Commonwealth government's Great Artesian Basin Stakeholder Advisory Committee and is the lead editor of Threats to Springs in a Changing World. He is a passionate educator and recognised for creating immersive learning experiences with Indigenous Australian and Pacific Islander communities.

experts.griffith.edu.au/38454-matthew-currell



HEAD OF DISCIPLINE, ELECTRICAL AND ELECTRONIC

Dr. Sascha Stegan brings 26 years of experience in the electrical industry, specialising in the integration of renewable energy sources like solar, wind, bioenergy, and geothermal into the electricity grid, as well as off-grid systems, electromobility, wireless charging, and smart condition monitoring for ageing assets like transformers. He has secured significant research funding from both government and industry. Sascha holds an unrestricted Electrician License in Australia and Europe, and is a Chartered Professional Engineer, a Registered Professional Engineer in Queensland, and a senior member of the Institute of Electrical and Electronic Engineers.

experts.griffith.edu.au/9393-sascha-stegan



HEAD OF DISCIPLINE, MECHANICAL ENGINEERING

Associate Professor Wayne Hall is a member of Engineers Australia, a Chartered Professional Engineer (CPEng) and a Registered Professional Engineer of Queensland (RPEQ).

experts.griffith.edu.au/7400-wayne-hall



OUR PROGRAMS

UNDERGRADUATE

GOLD COAST CAMPUS

- Bachelor of Engineering (Honours).
Majors:
 - » Civil Engineering
 - » Electrical and Electronic Engineering
 - » Electrical and Renewable Energy Engineering
 - » Environmental Engineering
 - » Mechanical Engineering
- Bachelor of Advanced Engineering (Honours)
- Bachelor of Software Engineering (Honours)
- Bachelor of Construction Management (Honours)
- Bachelor of Urban Planning (Honours)
- Bachelor of Industrial Design
- Bachelor of Architectural Design

Double degrees:

- Bachelor of Engineering (Honours)
 - » /Bachelor of Business
 - » /Bachelor of Environmental Science
 - » /Bachelor of Science
 - » /Bachelor of Information Technology
 - » /Bachelor of Computer Science
 - » /Bachelor of Industrial Design
 - » /Data Science
- Bachelor of Urban Planning (Honours)/
Bachelor of Science

NATHAN CAMPUS

- Bachelor of Engineering (Honours).
Majors:
 - » Civil Engineering
 - » Electronic Engineering
 - » Electronic and Energy Engineering
 - » Electronic and UAV Engineering
 - » Environmental Engineering
 - » Mechanical Engineering
 - » Mechatronic Engineering
- Bachelor of Advanced Engineering (Honours)
- Bachelor of Software Engineering (Honours)
- Bachelor of Aviation
- Bachelor of Aviation Management

Double degrees:

- Bachelor of Engineering (Honours)
 - » /Bachelor of Business
 - » /Bachelor of Environmental Science
 - » /Bachelor of Science
 - » /Bachelor of Information Technology
 - » /Bachelor of Aviation
 - » /Data Science
- Bachelor of Urban Planning (Honours)/ Bachelor of Science

POSTGRADUATE

GOLD COAST CAMPUS

- Master of Architecture
- Master of Urban and Environmental Planning
- Graduate Diploma of Engineering Science
- Master of Civil Engineering
- Master of Civil Engineering Advanced
- Master of Civil Engineering/ Master of Engineering Project Management
- Master of Professional Engineering
- Master of Engineering Project Management
- Master of Engineering Project Management Advanced
- Graduate Diploma of Research Studies in Engineering

NATHAN CAMPUS

- Graduate Certificate in Aviation Management
- Graduate Certificate in Urban and Environmental Planning
- Master of Aviation Management
- Graduate Diploma of Flight Management
- Graduate Diploma of Rotary Wing Flight Management
- Graduate Diploma of Engineering Science
- Master of Professional Engineering
- Master of Environmental Engineering
- Master of Environmental Engineering and Pollution Control
- Graduate Diploma of Research Studies in Engineering

UNDERGRADUATE / POSTGRADUATE

DIGITAL (ONLINE)

- Master of Architecture
- Master of Urban and Environmental Planning
- Graduate Diploma of Engineering Science
- Master of Civil Engineering
- Master of Civil Engineering Advanced
- Master of Civil Engineering/ Master of Engineering Project Management
- Master of Professional Engineering
- Master of Engineering Project Management
- Master of Engineering Project Management Advanced
- Graduate Diploma of Research Studies in Engineering

For further program details, please visit the Griffith website: griffith.edu.au/study

PROFESSIONAL RECOGNITION

The School of Engineering and Built Environment degree programs are accredited by professional bodies, meaning our degrees are recognised as a high-quality program.

PROGRAM	ACCREDITATION
Bachelor of Engineering (Honours) Double degrees: Bachelor of Engineering (Honours) <ul style="list-style-type: none">• /Bachelor of Business• /Bachelor of Environmental Science• /Bachelor of Science• /Bachelor of Information Technology	Accredited by Engineers Australia Internationally recognised via Engineers Australia's membership in joint recognition programs: <ul style="list-style-type: none">• Washington Accord• Sydney Accord• Dublin Accord
Master of Professional Engineering	Accreditation is currently being sought from Engineers Australia
Bachelor of Construction Management (Honours)	Provisionally accredited by the Australian Institute of Building (AIB) Accreditation is currently being sought from the Chartered Institute of Building (CIOB) and Australian Institute of Quantity Surveyors (AIQS) Accreditation is currently being sought from the Chartered Institute of Building (CIOB)
Bachelor of Industrial Design	Recognised by the Design Institute of Australia (DIA) The requirements of the Chartered Institute of Building (CIOB) in the UK and the Australian Institute of Quantity Surveyors (AIQS) have been considered in the development of this degree
Bachelor of Architectural Design	Recognised by the Australian Institute of Architects / Architects Accreditation Council of Australia (AACA) / Board of Architects of Queensland as an approved pathway program to the professionally accredited Master of Architecture
Master of Architecture	Recognised by the Architects Accreditation Council of Australia, the Board of Architects of Queensland, the Australian Institute of Architect and the Commonwealth Association of Architects Recognised by Commonwealth Association of Architects

PARTNERSHIPS AND COLLABORATIONS

Partnerships are at the heart of developing the next generation of leaders and finding innovative solutions to the most pressing challenges facing our natural and built environments.

Join us in redefining what's possible. Together, we can create meaningful impact and drive positive outcomes that benefit the greatest number of people – building a better future for all.

We offer unique, direct and impactful opportunities to engage with our staff and students, forging strong connections that drive progress.

Make it matter. Partner with the School of Engineering and Built Environment today.

WHY PARTNER WITH US?



GLOBAL EXCELLENCE

Consistently ranked in the top 2% of universities worldwide



TOP RANKINGS

Ranked No. 1 in Queensland for civil engineering



WORLD CLASS FACILITIES

Access purpose-built, specialised labs and workshops with industry technologies



KEY LOCATIONS

Our five campuses serve as vibrant hubs for learning, collaboration, and cutting-edge innovation



CAREER READY GRADUATES

85% employer satisfaction with our graduates



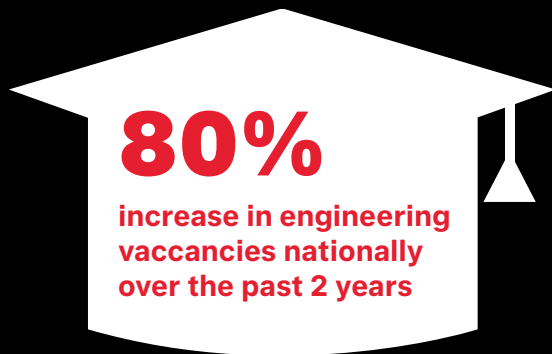
TOP-TIER EDUCATORS

Home to Australia's most awarded educators, ensuring our students receive the best instruction and mentorship

SPOTLIGHT: ENGINEERING OPPORTUNITIES

The demand for engineers is growing rapidly, outpacing supply both in Australia and globally. In Queensland, this demand is particularly high due to key factors such as renewable energy targets, the rise of electric vehicles, coal and petroleum exports, expanding public infrastructure, the upcoming 2032 Olympic and Paralympic Games, defence initiatives, and the booming space industry.

ENGINEERING WORKPLACE DEMAND...



44%

increase in Queensland for engineering vacancy growth, the highest increase in major states in 2022

Australian Engineering Employment Vacancies Report



8,000

engineering students are graduating in Australia per year

ACED's Submission to Australian Universities Accord



41%

increase for demand of civil engineers in Queensland, 2022

Australian Engineering Employment Vacancies Report



100,000

Up to 100,000 estimated future engineering shortfall by Engineers Australia

Strengthening the engineering workforce in Australia



24%

increase for demand of mining and industrial engineers in Queensland, 2022

Australian Engineering Employment Vacancies Report



44%

increase for demand of electrical engineers nationwide, 2022

Australian Engineering Employment Vacancies Report



35%

increase for demand of mechanical and production engineers in Queensland, 2022

Australian Engineering Employment Vacancies Report

Our School is poised for growth and positioned for excellence through our unique offerings, new leadership, research and interdisciplinary learning and teaching approach.

TAILOR YOUR PARTNERSHIP

GUEST LECTURES AND INDUSTRY INSIGHTS

Directly impact students' education and career preparedness. Bridge the gap between academic learning and practical application by sharing real-world experiences, case studies, and the latest industry trend

Opportunities:

- Volunteer to speak in classes, either on a specific topic or as part of an ongoing lecture series
- Host workshops or masterclasses
- Participate in panel discussions or Q&A sessions

Industry benefits:

- Exposure to the next generation of engineers and built environment professionals
- Opportunity to identify and recruit top talent
- Strengthen your brand's visibility within the academic community



WORK-INTEGRATED LEARNING (WIL) PLACEMENTS

WIL placements offer our final-year students the opportunity to spend a full 12-week trimester working with industry on a project defined by the industry.

Opportunities:

- Offer internship or placement opportunities to students
- Host co-op programs or summer work placements
- Provide industry mentors who guide students through the placement process

Industry benefits:

- Direct access to high-caliber students for recruitment purposes
- Opportunity to assess potential future employees in a real-world setting
- Contribute to the development of students' technical and professional skills



For more information, visit **Griffith University Work-integrated learning.**

INDUSTRY PHD SCHOLARSHIPS

You can recruit a PhD candidate from Griffith University or provide an existing employee with the opportunity to pursue a PhD at Griffith for a period of 3.5 years. Industry scholarships offer a comprehensive package with a minimum living stipend of \$50,000 per year for the candidate.

Industry benefits:

- Access to cutting-edge research: Gain access to advanced, high-impact research that can directly address your business challenges and innovation needs
- Tailored expertise: Benefit from customised research that directly aligns with your goals, whether it's in product

development, process optimisation, or exploring new technologies

- Long-term collaboration: The extended engagement enables opportunities to collaborate with academic experts, influence research direction, and build enduring strategic relationships
- Talent pipeline: Identify and nurture future leaders who are already aligned with your company's needs and values
- Enhanced brand reputation: Enhances your company's reputation as a forward-thinking, industry-leading organisation



For more details on funding models, visit **Industry PhD Scholarships at Griffith University**.



PROFESSIONAL DEVELOPMENT

Access our experts who can mentor your team through professional development (PD) masterclasses, microcredentials, and postgraduate pathways. Working together, we can create tailored in-house training, presentations and CPD conferences.

CONSULTANCY AND RESEARCH

Find innovative solutions and develop new technologies that address contemporary challenges. We can help develop new ideas, technologies, inventions and initiatives, verify facts and assumptions, provide expert analysis and advice, and offer access to specialist equipment and testing facilities.

PARTNER WITH GRIFFITH'S ADVANCED ENGINEERING DEGREE

Join us as an industry partner for the Bachelor of Advanced Engineering (Honours) program, offering high-achieving students the unique opportunity to blend academic learning with paid internships.

Throughout their studies, students build strong industry connections, create a portfolio of real-world projects, and receive mentorship from both industry professionals and academic experts, ensuring they are career-ready.

Industry benefits:

- Access to exceptionally talented students for long-term internships
- Opportunity for collaborative research with Griffith University
- Meaningful projects delivered by students
- Access to future graduates who are highly experienced in industry



For more information, visit **Griffith University's Bachelor of Advanced Engineering (Honours)**.

EMPOWER AND CONNECT WITH FUTURE INNOVATORS

Shape the leaders of tomorrow and build your brand. Here's how you can make a direct impact:

- Support student clubs: Engage with top talent and boost your industry presence.
- Industry-led projects and competitions: Sponsor hands-on projects and competitions that challenge students and showcase your expertise.
- Join advisory boards: Help shape curriculum and industry-relevant skills by advising on academic programs and trends
- Fund scholarships: Help students succeed by providing financial support to the next generation of innovators



EVENT SPONSORSHIP

Enhance your brand's visibility, strengthen connections with students and align your organisation alongside a celebration of academic achievement and excellence. We offer a variety of flexible sponsorship packages for our annual student events, with options ranging from \$2,000 to \$10,000.

Each package comes with customisable benefits designed to align with your business objectives. Whether you aim to boost brand awareness or show your support for the academic community, we can craft a tailored sponsorship experience that meets your needs.

Our annual events, held towards the end of the calendar year, include:

- **Aviation Ball**

Celebrate the success and achievements of Griffith's aviation students. With over 200 attendees, connect with the future pilots, engineers, and aviation experts, while elevating your brand's visibility among aviation enthusiasts.

- **Engineering and Construction Management Ball**

Celebrate the hard-earned success of Griffith's engineering and construction students at this prestigious event. With 200+ attendees, it's the perfect platform to engage with the next generation of engineering professionals.

- **Architecture, Industrial Design and Planning Exhibition**

See first-hand the innovative projects and designs by Griffith's architecture, industrial design, and urban planning students. This is a key opportunity to celebrate and connect with students driving creative solutions shaping the built environment.

While the sponsorship levels below provide a general framework, we encourage you to partner with us to develop a sponsorship that supports your goals and maximises your brand's impact.

SPONSORSHIP BENEFITS <i>Customisable</i>	BRONZE \$2,000	SILVER \$5,000	GOLD \$10,000
Brand promotion - advertising, digital and print collateral and communications	☆	☆	☆
Signage / banner / collateral at event	☆	☆	☆
Acknowledgment in event address/s	☆	☆	☆
Dedicated student award		☆	☆
Professional Development session <i>Custom to business needs - tour, use of facilities, equipment, space, etc</i>			☆
Two complimentary tickets	☆		
Four complimentary tickets		☆	
Eight (or table) complimentary tickets			☆



A COMMITMENT OF \$15,000 PER YEAR WILL HELP SHAPE THE FUTURE BY...



\$500

assists the Griffith Racing team in attending the next event to race and test a student designed FSAE race car.



\$1,000

provides outstanding students the opportunity to attend EWB Challenge (showcase event in Cairns we won pitch context for second time).



\$1,500

funds a series of visits to local high schools by our Women in Engineering student club –to further diversify our student intake.



\$2,000

helps acquire equipment for teaching labs to help us deliver our new Renewable Energy major.



\$2,500

sends an early career staff member on an overseas flight to help build crucial international connections to develop world class research.



\$5,000

event sponsorship for either the Aviation, Architecture or Engineering end of year event, helping build meaningful student connections and organisation engagement and brand promotion, whilst helping celebrate and recognise student achievements.

Together we can develop a package of activities that suits you and your team.

CONTACT US



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LINKEDIN

[Engineering & Built Environment \(EBE\) - Griffith University](#)

