

BE REMARKABLE

Ms Yvette Baxter

Griffith Sciences International

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– **Corey Johnson**
Griffith IT graduate
Software Engineer at Uber





More than 75% of future careers will require Science, Technology, Engineering or Maths (STEM) skills*

- **STEM skills are in demand** - It is estimated that 75% of the fastest growing occupations require STEM skills and knowledge. QLD Job forecast shows 20% growth by 2019. Professional, Scientific and Technical Services, (the main subdivisions being Architectural, Engineering and Technical Services; Legal and Accounting; and Computer System Design and Related Services) are projected to be the fastest growing industry in Queensland to 2019, providing 36,700 more jobs. There is strong growth projected in all subdivisions.
(The Australia Institute, April 2016)
- **Practical, hands on learning** – Purpose built modern facilities to accommodate practical nature of our degrees.
- **Focus on employability** - Development of both technical and transferable skills with opportunities for work placement while you study. Graduates earn more money and are more likely to get a job with skills in demand across more industries but yet not enough people pursue these fields.
(The Good Education Group May 10, 2016)
- **Common first year** - Exposure to a range of disciplines before selecting your major across engineering, science, environment & IT degrees.
- **Outstanding teaching reputation** - A friendly and supportive environment that helps students realise their potential. Griffith is the top nationally for university teaching award.
- Student support - Student Administration Centre, Course convenor, Program Directors, First, Second and Third year coordinators, Peer Assisted Study Sessions (PASS), Student Mentors.
- **3 trimesters** – Greater flexibility and ability to balance work with study or accelerate your degree.

Griffith Sciences Schools

School of Environment and Science



HEAD OF SCHOOL

Professor George Mellick

[Griffith Experts >](#)

School of Engineering and Built Environment



HEAD OF SCHOOL

Professor Sherif Mohamed

Phone: (07) 5552 8575

[Griffith Experts >](#)

School of Information and Communication Technology



HEAD OF SCHOOL

Professor Paulo de Souza

[Griffith Experts >](#)



Griffith Sciences: Key messaging



Discipline areas

1. Study Science
2. Study Urban and Environmental Planning
3. Study Environmental Science

Why choose Science?

1. Strong future career prospects

The majority of future jobs growth is likely to be in science, technology, engineering and maths*, so you'll have strong career prospects when you study sciences at Griffith.

2. Practical experience in Australia and overseas

Through our unique employability program, including final year projects, you'll gain hands on experience with local and international industry partners and be prepared to enter a wide range of careers.

3. Unique degree offering

Our forensic science degree was the first in Australia and is the only one of its kind in Queensland. It is taught by internationally renowned experts and practising Forensic Scientists.

4. Top rated in Australia for research

Throughout your degree you will be taught by some of Australia's leading researchers. In the most recent Excellence in Research for Australia results (2018), Griffith rated 'well above world standards', the maximum rating possible for chemical sciences, environmental sciences, evolutionary biology, chemistry, condensed matter physics and quantum physics.

Science programs

Undergraduate. Bachelor of:

- Science (Majors: Applied mathematics, Biochemistry and molecular biology, Chemistry, Clinical sciences, Geography, Marine Biology, Microbiology, Physics, Wildlife biology)
- Science Advanced (honours)
- Biomedical Science
- Biomedical Science (Honours)
- Medical Science
- Forensic Science

Doubles. Bachelor of:

- Urban and Environmental Planning/Bachelor of Science
- Engineering (Honours)/Bachelor of Science

Science programs

Postgraduate. Master of:

- Biotechnology (Standard OR dissertation pathway)
- Materials Science (Standard OR dissertation pathway)
- Science (Majors: biotechnology, clinical and molecular microbiology, food security, materials science, medicinal chemistry)

Why choose Urban and Environmental Planning ?

1. Industry experience as part of your degree

Our degree has a strong focus on applied studio teaching and gives you the skills employers want. You'll have the opportunity to undertake an extended industry placement, allowing you to put those skills into practice and make valuable industry contacts before you graduate.

2. Focus on sustainability

We are planning for people, communities and future cities with our interdisciplinary focus on the importance of balancing environment issues with urban and regional development.

3. Professional recognition

Our degree is accredited by the Planning Institute of Australia and recognised internationally so you can take advantage of career opportunities in Australia and overseas.

4. Flexible career opportunities

Our urban and environmental planning degree will prepare you for a number of career paths, including urban and regional planning, transport planning, social planning, property development, natural resource management, consultancy, and policy creation. There is demand for urban and environmental planners from all three levels of government, the private sector and NGOs.

Urban and environmental programs

Undergraduate. Bachelor of:

- Urban and Environmental Planning
- Urban and Environmental Planning (Honours)

Double:

- Urban and Environmental Planning/Bachelor of Science

Why choose Environmental Science?

1. Environmental leaders

Griffith researchers are providing scientific solutions to global challenges through our research. Griffith was named in Nature, the world's leading multidisciplinary science journal, in the top 25 young universities in earth and environmental sciences. Our strength and experience in environmental science, means you will learn from experts in the field.

2. Professionally accredited degree

As Australia's first degree accredited by the Environment Institute of Australia and New Zealand, our Bachelor of Environmental Science is recognised for the quality of content and teaching and provides you with a true point of difference upon graduation.

3. Committed to sustainability

With teaching focused on natural, social and economic aspects of the environment, Griffith is committed to sustainability.

4. Learn outside the classroom

At Griffith we offer a range of flexible and innovative programs that get you out of the classroom. Our students undertake study in diverse ecosystems: from the sub-tropical rain forests of Lamington National Park or Borneo, to the semi-arid deserts of Western Queensland, or in the marine environments along the Queensland coast including the Great Barrier Reef. You can also complete an industry-based project, which will prepare you for the workplace and provide valuable industry networks before you graduate.

Environmental Science programs

Undergraduate. Bachelor of:

- Environmental Science (Majors: Ecology and conservation; Environmental management; Soil and water science; urban environments)
- Bachelor of Marine Science
- Bachelor of Biomedical Science
- Bachelor of Medical Science
- Bachelor of Forensic Science

Double. Bachelor of:

- Engineering (Honours) /Bachelor of Environmental Sciences

Postgraduate. Master of:

- Catchment Science
- Environment (Majors: Climate change adaptation; Economics and policy; Environmental planning; Environmental protection; Sustainable business)
- Integrated Water Management (program is managed and led by the International Water Centre (IWC). The IWC is a key player in the global water sector and dedicated to providing education and training to promote whole-of-water cycle approaches to integrated water management around the world)

Discipline areas

1. Study cyber security
2. Study intelligent digital technologies
3. Study business information systems and IT management
4. Study computer science

Why choose Information and Communication Technology?

1. Unique degrees

Our Bachelor of Intelligent Digital Technologies, the only one of its kind in Australia, and our Bachelor of Computer Science, offer you the chance to stand out in the job market with a unique qualification.

2. Strong future career prospects

The majority of future jobs growth is likely to be in science, technology, engineering and maths, and IT skills are required in all industries*.

3. Real life experience

You'll have the chance to put your skills into practice in our Apps Factory, or by meeting business leaders and entrepreneurs who know how to get a start-up off the ground. You'll also be learning from world-class researchers and lecturers who have sent robots into space and predicted the outcome of federal elections using big data.

4. Purpose-built facilities

You'll learn in purpose-built, industry-leading facilities that have been crafted to reflect genuine workplaces. From our Big Data Visualisation Lab to our virtual reality, augmented reality, gamification and robotics labs, you will have ample opportunity to enhance your learning through cutting-edge technology.

A new academic building with purpose-built engineering facilities at Nathan Campus offering VR and AR simulation studios, Problem based learning studio, Motion capture labs, Innovative spaces for students to collaborate and work with industry partners.

Information and Technology programs

Undergraduate. Bachelor of:

- Information Technology (Majors: Information systems, Networks and Security, Software development)
- Information Technology (Honours)
- Computer Science (Majors: data science and artificial intelligence; Software development)
- Computer Science (Honours)
- Intelligent and Digital Technologies (Majors: IoT and Robotics; Programming for Visualisation an Entertainment)
- Creative and Interactive Media (Majors: Digital arts and design; Media applications)

Doubles:

- Engineering (Honours)/Bachelor of Computer Science
- Engineering (Honours) /Bachelor of Information Technology
- Aviation/Bachelor of Information Technology

Postgraduate. Master of:

- Cyber Security (Standard pathway OR Dissertation pathway)
- Information Systems and Information Technology Management (Majors: Enterprise Architecture; Data Analytics; Information Systems and Business Analysis; Networks and Security; Software Development and Support)

Discipline areas

1. Study Engineering
2. Study Industrial Design
3. Study Construction Management
4. Study Aviation
5. Study Architecture

Why choose Engineering?

1. Practical, hands-on learning

At Griffith your degree is built around hands-on, project-based learning. Our facilities accommodate the practical and creative nature of the degree with specialised workshops, laboratories and maker spaces.

2. Tailor your degree to suit your interest

In our Bachelor of Engineering (Honours), you can choose from a wide range of specialisations (majors) to create a unique skill set and gain the knowledge to land your dream job.

3. Industry connections and placements while you study

Our engineering degrees incorporate an industry placement project, giving you the opportunity to apply your skills in the workplace before you graduate, and visit a range of sites and organisations. In your final year, you'll take the skills gained in your first three years of study and enhance your employment opportunities through an engineering project placement with an industry partner, in Australia or overseas.

4. Common first year

Designed to give you exposure to a range of engineering disciplines, our common first year gives you the chance to experience the different areas you can specialise in before selecting your major. It also means your first year of study is with the same group of students, helping you to settle into university life.

Majors: Civil Engineering, Electrical and Electronic Engineering, Mechanical Engineering, Software Engineering

5. Purpose-built facilities

A new academic building with purpose-built engineering facilities at Nathan Campus. Learn in spaces designed to reflect the workplace including: Hi Spec Flexi Lab used for reduced-scale concrete testing and metal beam testing, with a 5 tone gantry reactionary frame and strong floor. Specialised civil engineering workshop and instrument laboratory. Controlled concrete curing room, allowing us to test concrete under specific temperature conditions.

6. Professional recognition

Graduates can receive accreditation from Engineers Australia and be recognised under the Washington Accord. This means graduates can work in other countries that recognise the Washington Accord, including the UK, USA, China, Canada, Singapore, Malaysia, Japan, South Korea, India and others.

Engineering programs

Undergraduate. Bachelor of:

- Engineering (Honours). (Majors: Civil Engineering, Electrical and Electronic Engineering, Mechanical Engineering, Software Engineering)
- Engineering Technology in Electronic and Computer Engineering

Doubles. Bachelor of:

- Engineering (Honours)/Bachelor of Aviation
- Engineering (Honours)/Bachelor of Business
- Engineering (Honours)/Bachelor of Computer Science
- Engineering (Honours) /Bachelor of Industrial Design
- Engineering (Honours) /Bachelor of Environmental Sciences
- Engineering (Honours) /Bachelor of Information Technology
- Engineering (Honours)/Bachelor of Science

Engineering programs

Postgraduate. Master of:

- Civil Engineering
- Civil Engineering (Advanced)
- Master of Materials Science (Standard pathway OR dissertation pathway)
- Electronic and Computer Engineering
- Electronic and Energy Engineering
- Electronic and Sport Engineering
- Engineering Project Management
- Engineering Project Management Advanced
- Environmental Engineering
- Environmental Engineering and Pollution Control
- Professional Engineering (Majors: Civil Engineering; Electronic Engineering; Environmental Engineering; Mechanical Engineering)

Doubles. Master of:

- Civil Engineering/Master of Engineering Project Management
- Electronic and Computer Engineering/Master of Electronic and Energy Engineering
- Electronic and Computer Engineering/Master of Electronic and Sport Engineering

Why choose Industrial Design?

1: Creative engineering with design innovation

Graduate with a unique ability for innovation and creativity while working to the rigorous principles of engineering and maths.

2. Learning through making

As the degree takes a hands-on approach to teaching that uses advanced technologies such as 3D printing, giving you the chance to develop your engineering knowledge and design skills.

3. Global context

International focus on digital and advanced technology manufacturing, giving you the chance to develop an understanding of how a product is created, from design to delivery, in a global context.

4. Professional recognition

The Bachelor of Industrial Design is recognised by the Design Institute of Australia. The degree also provides a pathway into engineering through completion of an additional two years of study through the Bachelor of Engineering (Honours).

Industrial design programs

Undergraduate. Bachelor of:

- Industrial design
- Engineering (Honours)/Industrial Design

Double. Bachelor of:

- Engineering (Honours) /Bachelor of Industrial Design

Why choose Construction Management?

1. Committed to social responsibility

Our construction management degree incorporates studies of social responsibility, community engagement and sustainability to ensure graduates meet ethical requirements in the industry.

2. Technology integration

A strong focus on information and communication technology applications in the built environment will put you ahead in the field.

3. Leadership development

Our learning experiences will develop essential leadership skills needed in the industry through the incorporation of group work, communication skills and management practice across your degree. As a graduate you'll be able to confidently manage commercial, building, mining and infrastructure projects.

4. Highly ranked for support and engagement

Built environment at Griffith was given a five-star rating for student support and learner engagement by the Good Universities Guide 2019, a leading independent provider of high-quality education and career information.

5. Industry Links

Strong links with employers allow you to apply what you learn in a practical context through Work Integrated Learning (WIL) opportunities, preparing you with the knowledge and skills employers want.

6. Growing industry

The construction industry is the third- largest industry sector in Australia and is continuing to expand. Within the industry Construction Managers are one of the top employing occupations. (Australian Government, Department of Jobs and Small Business, Australian Jobs 2019).

7. Professional Recognition

The Bachelor of Construction Management (Hons) is provisionally accredited by the Australian Institute of Building (AIB). The requirements of the Chartered Institute of Building (CIOB) in the UK and the Australia Institute of Quantity Surveyors (AIQS) have been considered in the development of this degree. Accreditation is currently being sought from the CIOB and AIQS.

Construction management programs

Undergraduate. Bachelor of:

- Construction Management (Honours)

Why choose Aviation?

1. Highly recognised aviation program

For more than 25 years Griffith has built an international reputation for graduates who are work-ready through our innovative approach to aviation education. We have strong links with the major airlines including partnerships with Qantas, Virgin Australia, Adelaide Airport, Brisbane Airport, Gold Coast Airport.

2. Industry-endorsed degrees

Our aviation degrees have been developed in conjunction with industry leaders ensuring the needs of industry are met and our graduates have the skills employers want. As a Griffith aviation student you'll have the opportunity to access the Qantas Future Pilot Program, with selected graduates transitioning to employment with QantasLink.

3. Accelerated degree

Complete your Bachelor of Aviation in two years and finish your pilot training through the Graduate Diploma of Flight Management in just one and a half years more. Plus, time spent in our state-of-the-art Flight Procedures Laboratory will help you develop practical flying techniques.

4. Networking opportunities

Build your professional network with our Mentoring Aviators Through Educational Support (MATES) program, and enrich your university experience. You can also give your study an edge and join the Griffith University Aviation Association (GUAvA) or Griffith University Soaring Society (GUSS).

5. Unique degrees and facilities

We have unique facilities including the Flight Procedure Lab. The flight procedures lab features a room full of computers equipped with simulators to put students in the cockpit of a plane. Students are able to choose between single or twin engine controls and practice in the labs whenever they need further study. Griffith offer a Graduate Diploma in Rotary Wing Flight Management and double degrees in Aviation & Engineering and Aviation & IT.

6. Common courses

Bachelor of Aviation and Bachelor of Aviation Management have common courses to facilitate transition from one program to the other

Aviation programs

Undergraduate. Bachelor of:

- Aviation
- Aviation Management

Pilot training: Graduate Diploma of Flight Management

Doubles: Bachelor of:

- Engineering (Honours)/Bachelor of Aviation
- Aviation/Bachelor of Information Technology

Postgraduate. Master of:

- Aviation Management

Why choose Architecture?

1. Sustainable designs for the tropics and subtropics

Our architecture degrees are distinctive in their emphasis on environmental sustainability and urban design. We are focused on global issues, particularly climate-responsive and sustainable design principles for the tropics and subtropics, relevant to our region and South East Asia.

2. Highly ranked for support and engagement

Architecture and Planning at Griffith was given a five-star rating for student support and learner engagement by the Good Universities Guide 2019, a leading independent provider of high-quality education and career information.

3. Industry connections

You'll have the opportunity to work with industry professionals while you study through work integrated learning projects. You may also have the opportunity to work with a Practice Mentor for an entire trimester during the last studio of your Bachelor degree.

4. Unique student opportunities

We offer unique learning experiences that can help you stand out from the crowd, such as small groups, practice-led design studios and international field study electives.

5. *Future skillset*

Focus on development of the future skillset: design and creative thinking with complex problem solving

6. *Professional recognition*

The Bachelor of Architectural Design is recognised by the Australian Institute of Architects, the Architects Accreditation Council of Australia and the Board of Architects of Queensland as an approved pathway program for the professionally accredited Master of Architecture. Graduates are eligible to apply for admission to the Master of Architecture.

Architecture programs

Undergraduate. Bachelor of:

- Architectural design

Postgraduate. Master of:

- Architecture

THANK YOU

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