



THE UNIVERSITY OF
MELBOURNE

Melbourne School
of Engineering



SOFTWARE ENGINEERING CAREER PATHWAYS

➤ For more information, visit
eng.unimelb.edu.au

SOFTWARE ENGINEERING AT MELBOURNE

Software engineers combine an understanding of computer science, design, engineering management, mathematics and psychology to manage the development, production and maintenance of large-scale software systems.

The Melbourne School of Engineering is the leading provider of engineering and IT education in Australia*.

Whether you are interested in a professional qualification, a career change, expanding your technical skills or pursuing a new interest, the University of Melbourne has a range of world class programs to meet your needs.

Our professional Master of Engineering is the first graduate program in Australia to offer accreditation from Engineers Australia and EUR-ACE®, enabling graduates to practice in Australia, Europe, the US, Japan, Singapore, and more.

Our software engineering programs include:

- » [Master of Engineering \(Software\)](#)
- » [Master of Engineering \(Software with Business\)](#)
- » [Master of Philosophy \(Engineering\)](#)
- » [Doctor of Philosophy \(Engineering\)](#)



After completing his Master of Engineering (Software), Mathew Blair began working for Google in San Francisco as a Software Engineering.

As part of his final year project, Mathew had the opportunity to work in an industry placement. Mathew's team, working in an office in a group of ten, were able to operate like a small start-up with industry involvement.

“The unique thing about the program is that it prepares students to be collaborative and client-focused. There is a huge focus on working in larger teams, which is really indicative of what it's like to work in the industry.”

Mathew Blair
Software Engineer, Google

Specialisations

Software Engineering offers you diverse career options as a software developer, engineer, software architect, analyst, programmer, games developer, project manager, mobile application developer, test analyst and IT consultant.

Our graduates are employed by companies of all sizes, government organisations, and as freelancers.

Job Outlook

Engineering professionals are in demand, not only in Australia, but across the globe. With a rapidly growing population, the need for engineers will become more critical than ever to ensure our cities have adequate transport, power, water, telecommunications and healthcare.

Students are advised to begin building their employability skills whilst at university, to give themselves the best start to their careers. Visit the University Careers Service to find out more: careers.unimelb.edu.au

For more information about the job outlook for this sector, please visit the Australian Government's Employment Projections and Job Outlook website: joboutlook.gov.au

For information about salaries, see: graduateopportunities.com

*No.1 in Australia; No.28 in the world. QS World University Rankings by Subject 2017.



Sectors & Employers

SOFTWARE ENGINEERING SECTORS	EXAMPLES OF EMPLOYERS
Aerospace	Fujitsu
Computer Games and Entertainment	GE Australia
Cybersecurity	Google
Disaster Management	IBM
Energy and Commodities	KPMG
Financial Services	Microsoft
Healthcare	NAB
Telecommunications	Palantir
Traffic and Transport	Thales

Career Progression

GRADUATE	3-5 YEARS EXPERIENCE	10 YEARS
Graduate Analyst/Programmer	Software Engineer	Project Manager
Graduate Games Programmer	Software Developer	Team Leader
Graduate Software Developer	Web Developer	Senior Software Engineer/Analyst/Developer
Graduate Software Engineer	Android/iOS developer	
Graduate Test Analyst/Engineer	Test Engineer	
	Analyst/Programmer	
	Software/Solution Architect	
	Systems Engineer	
	Simulation Software Engineer	
	Integration Specialist	



Alternative Careers

An engineering degree at the University of Melbourne gives you a solid technical and design foundation combined with strong analytical, problem solving and communication skills valued across a range of industries. Other areas our graduates have moved into include:

- » Management consulting
- » Finance, economics and banking
- » Business analysis
- » Project management
- » Technical sales, marketing and communications
- » Intellectual property management
- » Technical writing
- » Government and policy

Careers in Research

If you are passionate about a field of electrical engineering and would like to advance your research skills, enrolling in a graduate research degree could be a great option for you. Graduate research enhances your ability to problem solve, think autonomously and creatively, and analyse. Careers in research are diverse and may include:

- » academic positions at universities;
- » policy-making or research positions at public sector organisations;
- » private sector research and development projects;
- » self-employed consulting positions on technical or policy issues in your area of expertise.

Employability Services and Industry Links

Students undertaking our programs have access to a range of employability services, and benefit from a curriculum that offers excellent opportunities to connect with industry through:

- » an elective internship subject
- » student projects partnered with industry
- » guest lectures led by industry leaders and experts
- » site visits hosted by key organisations
- » industry networking events
- » career panels featuring industry representatives
- » career question drop-in service
- » an online jobs and internships portal



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