SOFTWARE ENGINEERING CAREER PATHWAYS

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

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
Aerospace
Computer Games and Entertainment
Cybersecurity
Disaster Management
Energy and Commodities
Financial Services
Healthcare
Telecommunications
Traffic and Transport

EXAMPLES OF EMPLOYERS
Fujitsu
GE Australia
Google
IBM
KPMG
Microsoft
NAB
Palantir
Thales

Career Progression

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