Structural Engineering offers diverse career options in the design, development, evaluation and risk assessment of load-bearing structures in a variety of areas including construction, aerospace, natural resources and consulting.

The Melbourne School of Engineering is the leading provider of engineering and IT education in Australia*, and ranked 25th in the world for Civil and Structural Engineering#.

Whether you are interested in a professional qualification, a career change, expanding your technical skills or pursuing a new interest, the Melbourne School of Engineering 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 as engineers in Australia, Europe, the US, Japan, Singapore, and more.

Programs that we offer in structural engineering include:

- Master of Engineering (Structural)
- Master of Engineering Structures
- Master of Philosophy (Engineering)
- Doctor of Philosophy (Engineering)

Specialisations
As a structural engineer, you could work with government, consultancies and industry, applying mathematical and scientific principles in the design, development, evaluation and risk assessment of the frameworks of load-bearing structures to ensure strength and rigidity.

Structural engineers ensure that the effects of extremes such as wind, waves, fire, temperature, earthquakes, blasts and human/vehicle traffic are taken into account when designing and building structures such as high-rise buildings, theatres, roads, rail lines, towers, bridges, dams, tunnels, and more.

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
Sectors & Employers

**STRUCTURAL ENGINEERING SECTORS AND INDUSTRIES**
- Aerospace
- Civil Engineering
- Construction
- Consulting
- Engineering/Architecture
- Manufacturing
- Mining
- Oil and Gas

**EXAMPLES OF EMPLOYERS**
- AECOM
- Arup
- Beca
- Bonacci Group
- BHP Billiton
- Brookfield Multiplex
- GHD
- Golder Associates
- Hyder Consulting
- CIMIC Group
- Metro Trains
- National Infrastructure Services
- Parsons Brinckerhoff
- VicRoads
- WorleyParsons

Career Progression

**GRADUATE**
- Graduate Project Coordinator
- Graduate Structural Draftsperson
- Graduate Structural Design Engineer
- Graduate Structural Engineer

**3-5 YEARS EXPERIENCE**
- Coastal Engineer
- Concrete Materials Engineering Specialist
- Infrastructure Engineer
- Marine Structural Engineer
- Maritime Structural Engineer
- Pipeline Engineer
- Project Engineer – Structural
- Rail Engineer
- Seismic Structural Engineer
- Site Structural Engineer
- Structural Dams Engineer

**10 YEARS**
- Structural Engineer – Bridge Design
- Structural Engineer – Commercial/Industrial
- Structural Engineer – High-rise Buildings
- Structural Engineer – Marine
- Structural Engineer – Materials Handling
- Structural Engineer – Mining
- Structural Engineer – Residential/BUILDINGS
- Structural Engineer – Subsea
- Structural Contractor
- Structural Design Engineer
- Tunnel Design Engineer

**LEAD STRUCTURAL ENGINEER**
- Lead Structural Engineer
- Principal Structural Engineer
- Principal Technical Structural Engineer
- Senior Building Consultant
- Senior Project Manager
- Senior Structural Engineer
- Senior Structural Engineer/Business Development
- Senior Structural Engineer/Design
- Team Leader
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