



What skills can graduates gain?

Through studying a degree in Mechatronics Engineering, graduates develop a valuable set of skills that are transferable to a range of careers. These skills can include:

- Practical application of engineering technology and science
- Technology, mechanical and computing abilities
- Broad knowledge of a range of engineering disciplines
- Problem solving that applies to real world challenges
- Analytical, logical and quantitative thinking
- Teamwork, planning and organisation
- Creativity and innovation.

Applied learning

Students undertake 800 hours of work experience as part of this engineering degree, providing them with a good understanding of the industry and the confidence to apply their skills in a workplace setting. This experience can deepen students' skillset, awareness of others, working knowledge and employability.

What do employers look for?

Many employers look for generic skills such as communication, client/customer-focus, bicultural competence, cultural awareness, teamwork and initiative.

With technology, globalisation, and other drivers changing society, skills such as resilience, problem solving, and adaptability are important.

Skills that are likely to grow in importance include analytical and creative thinking, systems thinking and technological literacy."

"We'd encourage students to think about the skills they need to succeed in the future. It's not just about technical skills, but also about communication, teamwork, and problem-solving. These are the skills that employers are looking for." - Dr. Jane Smith, Head of Department

What jobs and activities might graduates do?

Graduates with this degree are employed in a range of jobs — see some examples below.



Product design engineer, design engineer, industrial design

- Research a client's brief, an organisational or social need, or a gap in the market
- Prepare drawings, models and proposals for new products or product improvements
- Design and produce a prototype
- Test the prototype, ergonomics and investigate patents

Automotive engineer

- Design and program high-tech computer-controlled equipment for industrial processes
- Identify and fix machine issues

Mechanical engineer

- Use mechanical, computer and controls knowledge to design and create products
- Research components of design
- Test products for efficiency and adaptability

Process engineering

- Optimise manufacturing processes for efficiency, scale, and cost-effectiveness
- Collaborate with cross-functional teams, analyse data, and ensure regulatory compliance

Software engineer

- Analyse customer needs, evaluate computer software and research new technologies
- Develop software programs for new products
- Manage software development projects

Robotics, robotics

- Work in teams to design and develop robots
- Test robotic operations and processes
- Service and maintain robotic functioning

Mechanical/cad engineer

- Assist in the development of products using drafting tools or computer software
- Design testing control equipment
- Research and advise on design modifications to resolve problems

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- Determine specifications and write code
- Build prototypes of software programs
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