

# Bachelor of Engineering with Honours BE(Hons) Overview

Those who want to lead the way in innovation, improve infrastructure, build smarter technologies and find alternative energy sources, our Bachelor of Engineering (Honours) (BE(Hons)) will help them achieve just that.

New Zealand needs more professional engineers. Currently, fewer than 1,000 professional engineers graduate each year. Countries with similar populations to New Zealand have more than double that number of engineering graduates. Increasing the number of trained engineers is seen as essential for New Zealand's growth in technology-related enterprises.

Our Engineering School evolved directly out of the School of Science Technology and the School of Computing and Mathematical Sciences in the last 15 years. Close links in New Zealand industry ensures our graduates are work ready and can apply engineering skills and scientific knowledge to solve real world, industrial and society problems. Waikato's BE(Hons) encourages creative thinking and problem solving in all students using design

and engineering processes from year one. If your student is good at mathematics and physics but is also a highly creative thinker and enjoys making things, the BE(Hons) will appeal to them. At every stage of their degree, they'll be deeply involved in creating, designing and realising sophisticated engineering products. Studying engineering at Waikato offers students future-proofed, project-based learning that will put them at the top of their game for a career

in engineering. By the end of their degree they will have worked in teams, managed their own projects, worked with budgets and spent significant time working within the industry. Our eligible BE(Hons) programmes are accredited by the Institute of Professional Engineers New Zealand (IPENZ), meaning they are professionally recognised in 18 countries and regions, including Australia, Canada, the UK and the USA.

Y1	ENGEN170 Engineering and Society	ENGEN180 Foundation of Engineering	ENGEN183 Linear Algebra and Stats	ENGEN184 Calculus for Engineers	ENGEN103 Engineering Computing	ENGEN112 Materials Science and Engineering	Programme Specified	Programme Elective	
Y2	ENGEN270 Engineering Professional Practice 1	Design Challenge 1	ENGEN201 Engineering Maths 2	Programme Specified	Programme Specified	Programme Specified	Programme Specified	Programme Elective	ENGEN271 Industry Placement 1
Y3	ENGEV342 Sustainable Engineering	Design Challenge 2	ENGEN301 Engineering Maths 3	Programme Specified	Programme Specified	Programme Specified	Programme Specified	Programme Elective	
Y4	ENGEN570 Engineering Professional Practice 2	Research and Design Projects				Programme Specified	Programme Elective	Programme Elective	ENGEN371 Industry Placement 2