SHAPING THE FUTURE
SCHOOL OF ENGINEERING

WORLD CHANGING GLASGOW
The University of Glasgow has shaped the modern world through notable engineers such as James Watt and William Rankine. Looking ahead, the School of Engineering will continue this world-changing journey. Through our research programmes we aim to pioneer frontier technologies, underpinning industrial innovation both today and tomorrow.

Through our UK-based and international degree programmes we aim to educate students with the analytical and creative skills to adapt, thrive and lead in an ever-changing world. Whatever your journey—student, researcher, academic, support staff or business—we welcome you as a valued partner on our journey as we shape the future.

Professor David Cumming, Head of School
Our work encompasses frontier research on quantum technologies, nanoscience, photonics, flexible electronics and device modelling down to the atomic scale. Through the world-leading James Watt Nanofabrication Centre we engage strongly with our many industrial and international partners.

Professor Robert Hadfield
Head of Division Electronics and Nanoscale Engineering
glasgow.ac.uk/ENE

Throughout my time at the School, I have gained extensive knowledge in semiconductor device fabrication and characterisation. I aspire to work in the semiconductor industry and contribute to new technological advances that would have a positive impact on society.

Tania Hemakumara, PhD student
Our research impacts on quality of life, and life expectancy, by developing advanced healthcare technologies. We are currently developing new stem-cell based engineering solutions that sustain new therapies as well as diagnostic tools to target disease before symptoms are evident and too late for effective treatment.

Professor Manuel Salmeron-Sanchez
Head of Division Biomedical Engineering
glasgow.ac.uk/BioEng

The Biomedical Engineering Research Division is a truly stimulating multidisciplinary environment to work in. Here I have the opportunity to take part in cutting edge research in regenerative medicine, developing new technologies for the treatment and regeneration of damaged tissues.

Dr Marco Cantini, MRC/UKRI Rutherford Fund Fellow
My hope is that the research we are doing today will lead to a more connected world where people can enjoy longer, healthier lives through developments in sustainable energy, healthcare, and personal electronics. I believe this will be achieved through miniaturisation, integration and personal approaches to engineering.

Dr Holly Lay, Research Associate
We are harnessing fundamental science and engineering design to deliver solutions to some of the 21st century’s most pressing infrastructure and environmental problems: resilient and sustainable cities, sustainable sanitation, water supply and pollution control, and smart, responsive transportation.

Professor William Sloan
Head of Division Infrastructure and Environment
glasgow.ac.uk/IandE

Microbes have made life possible on our planet and now their incredible metabolic diversity is being explored by engineers and biologists alike to solve the world’s most pressing environmental problems. As a gene scientist I am working on engineering microbial metabolisms to deliver clean water and renewable fuels.

Dr Jillian Couto, Research Associate
I am currently working on new techniques for flow visualization. After gaining experience at the University of Glasgow, I am returning to my country to work as a research engineer in industry and will apply this technique to real applications.

Kosuke Fujiwara, PhD student

We have established major initiatives to deliver capability and technologies that contribute to greener, faster, smarter and safer travel, and address future societal needs. Our work is also delivering impact on the design of unconventional and autonomous air-space transportation systems.

Professor Kostas Kontis
Head of Division Aerospace Sciences
glasgow.ac.uk/aerospace
In addition to five well-established research divisions, the School of Engineering has an extensive teaching portfolio and welcomes around 2,000 students to one of its 13 undergraduate programmes or 18 postgraduate programmes. Whilst studying, engineering students can join one of the School’s many societies, spending their free time as diversely as building a single seat racing car or joining the Female Engineering Society’s expedition to Rwanda.

Since the beginning of Engineering education at Glasgow in 1840, the School of Engineering has had a rich and influential history. However, its focus is always on the future; preparing itself and its students for the challenges ahead.

glasgow.ac.uk/engineering
Since graduating from the School of Engineering, I have become a Chartered Engineer working in the Automotive sector in Jaguar Land Rover. I am currently training in six-sigma problem-solving and managing quality and continuous improvement projects which I find really interesting.

As an engineer you are always learning new skills and technologies and I hope to continue to broaden my experience in emerging areas over the next few years.

Orla Murphy, Alumna
After graduation I found myself with a variety of paths for the start of my career. After my first job in the space industry I started Clyde Space because there was a clear trend in the increasing utility value of small satellites.

Today, Glasgow is one of the most prolific spacecraft production locations in the world.

Craig Clark MBE, Alumnus
A NEW HOME

Our new Engineering building scheduled for the early 2020s will be a catalyst for 21st century research, innovation and external engagement – a place where we will pioneer frontier technologies, from underpinning research to the creation of the industries of the future.

We will lead a new culture in Engineering education that immerses our students in a creative environment, where their Engineering Science, technological and design skills can be integrated to create invent and innovate.