

# Engineering and Manufacturing.

**“The talent and resources at Canterbury Christ Church University are very impressive. It’s been an absolute pleasure to work with both the students and lecturing staff on innovations that will continue to transform our potential, as well as the University management for their approach to partnerships with industry.”**

MICHAEL WILSHAW |  
MANAGING DIRECTOR, EXROID

[canterbury.ac.uk](http://canterbury.ac.uk)



Our goal is to help the region’s engineering and manufacturing community access advanced technologies and research that will drive improvements in productivity, performance, and quality.

We offer bespoke solutions to business using our expertise and facilities, developing an understanding of requirements before providing innovative solutions. This aligns with our CDIO international engineering education model, where the framework centres on the importance of close collaboration between organisations, industry, and education providers in the context of Conceiving, Designing, Implementing and Operating (CDIO).

## Expertise

Our academics and technicians can provide a range of services from consultancy; analysis and technical support; to research and development into new products; processes and services across the following areas:

- Automation
- Digitalisation
- Product and process verification
- Additive and advance manufacturing
- Design and prototyping
- Dynamic modelling and analysis
- Cybersecurity and computer forensic
- Data Intelligence
- Material testing and training.



“The research collaboration with Canterbury Christ Church University will provide an ideal environment for sharing the know-how of the Egyptian and the UK partners in water desalination and advanced manufacturing. In addition, this research will advance the utilisation of additive manufacturing in the UK.”

DR MOHAMMED ALI | THE EGYPT DESALINATION RESEARCH CENTRE OF EXCELLENCE



We have state of the art facilities at our Canterbury campus including our engineering workshop, mechatronics lab, makerspace and mechanical physics lab. Within these spaces, our specialist equipment includes:

- Scanning Electron Microscopy (SEM)
- Bench top NMR
- AR/VR equipment
- 3D handheld scanner
- Laser marking system
- SLM metal printer
- Wilson / Vickers / Rockwell VH1150 hardness tester
- Instron tension and compression testing
- Fibre laser cutting machine
- Injection moulding machine
- Subsonic wind tunnel
- Subsonic Wind Tunnel
- Formlabs 3 Resin 3d printer
- Marked forge 3d Printer
- XYX 660 3-Axis machining centre
- 2D and 3D laser Cutting machines
- Wood and Plastic cutting machines