



Additive
manufacturing

Sustainable
manufacturing

Advanced
polymer
products

Innovation

Nano
manufacturing

Collaboration

Industry
focus

Project Summary

June 2022

NW**CAM**

North West Centre for Advanced Manufacturing

University of Glasgow



University
of Glasgow

Founded in 1451, the University of Glasgow is the fourth oldest university in the English-speaking world. A member of the prestigious Russell Group of leading UK universities, the University has a student population of around 35,000 and more than 9,000 staff (including more than 4,800 research and teaching staff). Glasgow has a long-established reputation as a major research-led institution and generates research income of more than £168m per year.

Results from the 2021 Research Excellence Framework (REF) assessment reflected Glasgow's commitment to world-changing research, and demonstrated the University's research excellence and impact across all disciplines. In terms of engineering, Glasgow was ranked top in Scotland for engineering research excellence with 96% of research judged world-leading (4*) or internationally excellent (3*).

The University of Glasgow was the first institution in the UK to confer degrees in engineering. The James Watt School of Engineering (JWSE) offers taught and research programmes across a broad range of engineering subjects. JWSE boasts world-leading research groups and facilities such as the James Watt Nanofabrication Centre (JWNC) – a 1400m² cleanroom which houses over £35m of state-of-the-art fabrication and metrology equipment. The JWNC was created in 2005 to bring together the University's micro and nanofabrication equipment and lab facilities. It undertakes applied and commercial research, and small industrial prototyping and production runs in micro and nanofabrication technologies. The Centre's research focuses on developing the tools, processes, IP and know-how for heterogeneous integration.

Research themes include optoelectronics (including applications in communications and healthcare), superconducting devices (including quantum technologies), and high-speed and high-power transistors for driving the electronics revolution.

The University of Glasgow collaborated with three industry partners on four projects aligned to the NWCAM theme of nano manufacturing.

www.gla.ac.uk

www.gla.ac.uk/schools/engineering

www.gla.ac.uk/research/az/jwnc