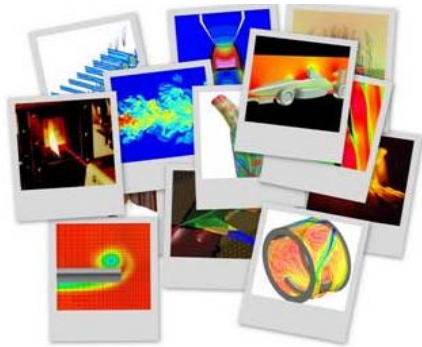


School of Engineering Department of Aerospace Sciences

The University

Cranfield's mission to transform knowledge into ingenious solutions in science, technology and management places us at the forefront of some of the world's most practical, cutting-edge projects. Cranfield has a global reputation for inspirational teaching and research, industrial-scale facilities and superior links with industry and commerce. Cranfield is one of the top five research-intensive universities in the UK. 94% of our students go on to relevant work or further study within 6 months of graduation. Cranfield's partners include more than 100 European institutions. In the current Times Higher World University Rankings Cranfield's top achievements included being ranked:

- Second in the UK and the World in the international student category
- Top in the UK for staff to student ratio, taking 6th place in the World



The Department

The Department of Aerospace Sciences has a broad portfolio of teaching and research activities in relation to **scientific computing and computational science with applications to aerospace, mechanical, environmental, energy, biomedical engineering, nanotechnology and computer technology sectors**. Areas of specialisation include high-performance (parallel) computing, computational fluid dynamics, computational engineering and design, computational physics, distributed data analysis, parallel visualisation, virtual reality, autonomous systems, control and dynamics, software engineering, numerical methods, data mining and fusion, grid computing, fluid mechanics and heat transfer, dynamics and control, complex systems, applied mechanics, engineering design, advanced instrumentation techniques, autonomous systems, acoustics, materials modelling, combustion, fluid-structure interaction, nanotechnology, and technology management.



Master of Science Courses and PhD programmes

The Department of Aerospace Sciences offers postgraduate *Master of Science courses based on research (MSc by Research)*, as well as *PhD programmes* within the Department's specialisation areas as outlined above. The Department further offers *taught courses* in 'Autonomous Vehicle Dynamics and Control', 'Computational Fluid Dynamics', and 'Aerospace Dynamics'. Postgraduate student bursaries are offered subject to applicants' academic qualifications

The courses are designed to provide students with extensive knowledge and application skills in the corresponding disciplines, including further specialisation through a dissertation project that involves close interaction with industry.



Unique Facilities

Our students benefit from access to High-Performance Computing (HPC) and large scale experimental facilities. Cranfield's large HPC comprises 856 processors delivering maximum performance of up to 7.2 TFlops, enabling our students to engage in computationally intensive research projects. Large scale experimental facilities are also used for a variety of projects ranging from complex environmental and energy projects to advanced designs of modern commercial aircraft.

Contact Information

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