Guide to Postgraduate Study

Department of Mechanical and Aerospace Engineering
The Department of Mechanical and Aerospace Engineering is home to award-winning and internationally recognised research centres spanning Energy, Aerospace, Fluids, Structures and Materials. Our work is both creating new knowledge and understanding, and translating that new knowledge into the technologies of tomorrow.

From understanding the behaviour of fluid flow at nanoscales to mapping trajectories for deep space missions, we are making key research contributions that will underpin our common future. Our research programmes are also delivering new knowledge with societal and industrial impact, from marine turbines for clean energy to lightweight material for efficient transportation.

The Department is highly rated with a world-class reputation for research and teaching.

The Department has extensive links with the corporate sector as well as a strong commitment to students, while our worldwide alumni include distinguished industrialists and scholars. The Department is located in the Faculty of Engineering – one of the largest and most important providers of quality engineering education in Europe.

All of our courses are professionally accredited by the Institution of Mechanical Engineers (I Mech E) on behalf of the Engineering Council, and some are accredited by additional professional bodies.
As Head of the Department of Mechanical and Aerospace Engineering, it is my pleasure each year to welcome large numbers of graduate students who are keen to extend their studies. A rewarding part of the job is knowing that the majority of these students will go out at the end of their course into employment with major companies, and indeed I often come into contact with previous students in later years as they take up leading roles in their companies and professional organisations. We strive to maintain and improve upon our reputation as a centre of excellence in engineering and education, and we believe postgraduate students are an important part of the life of our Department.

Professor Andrew Heyes
Head of Department
The MSc in Advanced Mechanical Engineering has been developed to provide high calibre mechanical engineering graduates with an in-depth technical understanding of advanced mechanical engineering topics, together with generic skills that will allow them to contribute effectively in developing company capabilities. The course is accredited by the Institution of Mechanical Engineers (IMechE) and provides a route for graduates to achieve Chartered Engineer status.

The four “with options” programmes, (Materials, Aerospace, Energy Systems and Power Plant Technologies) are for those students who wish to study in a more specialised field.

Engineering graduates, particularly Mechanical Engineers, are in demand from recruiting companies. This course is designed to meet industrial demand for qualified staff in the area of Mechanical Engineering, and is particularly suitable for Graduate Engineers in the following sectors:

- Chemical, Petrochemical & Process Engineering
- Design Engineering
- Power Generation
- Manufacturing
- Oil & Gas
- Renewable Energy

For more information on the requirements for the course, please visit the Department of Mechanical and Aerospace Engineering postgraduate website at: www.strath.ac.uk/engineering/mechanicalaerospaceengineering/studywithus-postgraduate/

Course Director: Dr Tom Scanlon
Email: tom.scanlon@strath.ac.uk

Strathclyde is one of the leading Universities for engineering. The facilities are excellent and I appreciate the student focus that is constantly maintained. I was attracted to the course due to its multidisciplinary approach, and its affiliation to the IMechE. I consider myself lucky to be one among the first batch to be passing with Aerospace specialisation. After graduation, I intend on concentrating on research within the Aerospace domain and see myself working in the field.

Karthika Unnikrishnan, India
The course is approved by the Energy Institute, the Institution of Mechanical Engineers and the Royal Aeronautical Society, and meets the academic requirements for Chartered Engineer (CEng) status.

The interaction of energy systems and their impact on the environment is increasingly important in today’s society.

This course examines the design and operation of the energy systems that provide the environments in which people live and work. It addresses how quality of life can be balanced by the need for conservation of world resources, especially energy, and the protection of the environment. Society needs professionals who understand this balance and who seek to harness energy resources in an environmentally friendly manner.

You will learn about different energy resources - renewable, fossil and nuclear - and the systems that can be employed to harness these resources, such as combined heat and power schemes, heat pumps, solar capture devices, high efficiency condensing boilers, advanced materials and adaptive control systems. You will also learn about the impact energy has on the environment and how this impact can be reduced, particularly the technical relationship between energy systems and the environment, and gain confidence in using computer-based methods to address the complexities that underlie this relationship.

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Course Director: Dr Paul Tuohy
Email: paul.tuohy@strath.ac.uk
Glasgow is not only Scotland’s largest city, it is also one of the most exciting places to study in the United Kingdom.

Absorb yourself in the city’s rich arts and cultural scene at the many galleries, museums and theatres. Take a break in one of the city’s beautiful parks and gardens, or shop in the UK’s biggest retail centre outside London. If it’s nightlife you’re after, Glasgow is the place to be. With a huge range of bars, restaurants, nightclubs and music venues, there’s something to suit all tastes.

With excellent transport links, it’s easy to get out and explore whilst studying in Glasgow. The historic city of Edinburgh is surprisingly nearby and the stunning scenery of the Scottish Highlands is also within easy reach, with the shores of Loch Lomond only a short journey away.

Glasgow is a great place to live since it is a very lively city. There are plenty of activities you can do like shopping, visiting museums, parks or going hiking at the weekend.

Maria Del Carmen Bocanegra-Yanez, Spain

I really enjoyed my stay in Scotland. Scotland is rich in culture, tradition and scenic beauty. I especially liked the Scottish pipes, drums, kilts, highlands and islands. Glasgow is the cultural and financial capital of Scotland and life in Glasgow is vibrant and fun especially the pubs and shopping. The thing I’m really missing is Irn Bru, a Scottish fizzy drink which I loved!

Venkata Duddumpudi, India
Postgraduate MSc Scholarship Opportunities

For information on sources of funding:
www.strath.ac.uk/studywithus/scholarships/

The Department’s Postgraduate MSc course webpage may also provide information on current scholarships available: www.strath.ac.uk/engineering/mechanicalaerospaceengineering/studywithus-postgraduate/

A copy of the Faculty of Engineering’s Scholarship brochure: www.strath.ac.uk/engineering/studywithus/scholarships/

Any enquiries regarding technical issues of the course should be forwarded to the Course Director of the programme of your choice.

For general enquiries please contact the Postgraduate Administrator:

Ms Diane McArthur
t: +44-141-548-2846
e: mae-pg@strath.ac.uk

Research Degree Study in the Department of Mechanical and Aerospace Engineering

The Department is home to a large group of PhD students and welcomes further applications for advanced research study.

Applicants applying for PhD/MPhil degrees should provide a research proposal with their application.

For further information on our research centres and application procedure: www.strath.ac.uk/engineering/mechanicalaerospaceengineering/