Candidate Information

Position:	Teaching Fellow
School/Department:	Mechanical & Manufacturing Engineering
Reference:	22/110096
Closing Date:	Monday 5 September 2022
Salary:	£38,592 per annum
Anticipated Interview Date:	Monday 19 September 2022
Duration:	1 year or until 30 September 2023, whichever is soonest.

JOB PURPOSE:

To help shape our future undergraduate and postgraduate curriculums and support the delivery of world class education across our Mechanical Engineering, Aerospace Engineering and/or Product Design Engineering programmes as well as contribute to interdisciplinary teaching activities across the breadth of the University portfolio and deliver an exceptional student experience.

MAJOR DUTIES:

1. Teach Mechanical and Aerospace Engineering at undergraduate and postgraduate level, informed by a thorough knowledge of computer aided engineering methods (CAD, FEA, CFD or similar) and/or energy system analysis.
2. Utilise a range of teaching methods in the design and delivery of teaching and assessment activities.
3. Develop approaches to teaching and learning, which are appropriate for the subject area and support the core curriculum.
4. Contribute to the development of a variety of innovative teaching programmes associated with the subject specialism and to interdisciplinary teaching activities across the breadth of the University portfolio within their area of competence.
5. Supervise student research projects which may involve an extensive range of topic areas both inside and outside the post-holder's own specialist area.
6. Select appropriate assessment instruments and criteria, assess the work and progress of students accordingly and provide constructive feedback.
7. Seek ways of improving performance by reflecting on teaching design and delivery, through analysis of feedback.
8. Contribute to wider School and University administration and outreach activities.

ESSENTIAL CRITERIA:

1. Honours Degree or Equivalent in Mechanical Engineering, Aerospace Engineering, Physics, Applied Mathematics or closely related subject.
2. Have, or be about to obtain, a PhD or 3 years of equivalent industrial experience in the development and/or use of CAD, CFD, FEA or closely aligned methods within an engineering context, and or energy systems analysis using MATLAB and Python.
3. Demonstrable breadth and depth of specialist knowledge to teach at undergraduate and or/postgraduate levels across the School UG/PGT provision, aligned with your own area of specialism.
4. Excellent communication skills with the ability to communicate complex information in English and a proven ability to present ideas clearly and succinctly.

DESIRABLE CRITERIA:

1. Postgraduate Certificate in Higher Education Teaching (PGCHET) or other recognised Higher Education taught qualification.
2. Demonstrable record of enhancing the quality of learning opportunities and in turn the student experience, with relevant experience of development of taught content, teaching and assessment at undergraduate and/postgraduate level in a higher education setting.
3. Evidence of contribution to national and/or international collaborations.