



Candidate Information

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| Position: | Teaching Fellow in Mechanical Engineering |
| School/Department: | Mechanical & Manufacturing Engineering |
| Reference: | 23/111034 |
| Closing Date: | Sunday 25 June 2023 |
| Salary: | £36,333 - £43,155 per annum. |
| Anticipated Interview Date: | Monday 3 July 2023 |
| Duration: | Fixed-term post, available until 31 July 2024 |

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:

Teaching:

1. Teach Mechanical and Aerospace Engineering students at undergraduate and postgraduate level, informed by a thorough knowledge of thermodynamics and fluid mechanics.
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 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.

Administration/Contribution to the Community:

1. Provide pastoral care for students, as far as practicable, so that relevant issues are dealt with in a timely, sympathetic and effective manner.
2. Contribute to the School's outreach strategy by delivering community outreach programmes and developing external links.
3. Contribute to wider School and University administration and outreach activities and will be introduced and mentored through School and University administration activities.

ESSENTIAL CRITERIA:

1. Honours Degree or Equivalent in Mechanical Engineering, Aerospace Engineering, Physics, Applied Mathematics or closely related subject.
2. Have, or be in the process of completing, a PhD in a relevant subject area. For candidates who do not have/currently completing a PhD qualification, five years relevant experience in a higher education setting.
3. At least two years postgraduate experience in the fields of thermodynamics or fluid mechanics.
4. Demonstrable experience in teaching and/or demonstrating at undergraduate and or/postgraduate levels in Mechanical Engineering with specific experience in thermodynamics and fluid mechanics related content.
5. Evidence of experience of working to deadlines.
6. Ability to advance the teaching goals of the School.
7. To strengthen the School's national and international research networks.
8. Must demonstrate evidence of ability to communicate clearly and effectively to students and academic colleagues.

9. Excellent communication skills with the ability to communicate complex information in English and a proven ability to present ideas clearly and succinctly.
10. Evidence of good interpersonal skills and the ability to work both independently and as part of a team.

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.