

JOB DESCRIPTION



Job Title:	Senior Lecturer in Mechatronics Engineering
School/Service:	School of Engineering
Grade:	Grade I
Responsible to:	Head of School

Job Purpose:

To support the School of Engineering in delivering its commitments to teaching, research, and income generation in the area of Mechatronics and Intelligent Machines Engineering. To secure the future operation and enhancement of the undergraduate and postgraduate engineering programmes; contribute to teaching and research in the School of Engineering. Contribute to new developments growing out of our existing courses in mechatronics and intelligent machines engineering, teaching relevant modules such as PLC – Electromechanical Systems – Mechatronic Systems including Modelling and Simulation – Automatic Control Engineering, and support development/use of distance learning and innovative teaching methods within the School.

Main Duties and Responsibilities:

1. Sustain, maintain and develop undergraduate and postgraduate engineering courses and liaise with colleagues to ensure that practical activities enhance the content of the taught courses.
2. Contribute to the development and delivery of the School's engineering programmes at different campuses.
3. Use of distance learning and innovative teaching methods in the development and delivery of the School's engineering programmes.
4. Engage in internationally competitive research in an area of Mechatronics and Intelligent Machine Engineering or other areas appropriate to the academic objectives of the School.
5. Engage with industrial partners to develop and extend collaborative work (research/Knowledge Transfer) and opportunities for students, and promote the activities of the Engineering Innovation Centre.
6. Engage in supervision of student engineering projects at undergraduate and postgraduate levels.
7. As a Senior Lecturer, undertake significant administrative, course development, and course leadership responsibilities. Act as a module tutor for a number of identified modules. Administer course registers, assessment records, learning programme and other records.
8. Adhere to quality assurance and enhancement systems to ensure high standards are maintained and student experience is enhanced.
9. Attend local and national events on behalf of the University, in order to promote the University and its courses, and to enhance the profile of the School, Faculty, and University as a whole.
10. Undertake any other duties relevant to the School's activities commensurate with the level of the post as agreed with the Head of School.

PERSON SPECIFICATION

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Attributes	Essential	Desirable	Measured By
Work Experience	<p>Experience of teaching in Higher Education</p> <p>Research and/or industrial experience in engineering.</p>	<p>Experience of engineering in a commercial context.</p> <p>Supervision of undergraduate projects.</p> <p>Course leadership</p> <p>Experience of Higher and Degree Apprenticeships</p>	Application Form and Interview
Education/Qualifications	<p>BEng or MEng in Mechatronics (or equivalent in similar subject).</p> <p>PhD in appropriate subject or equivalent industrial experience.</p>	Higher Education teaching qualification and/or UKPSF D2 (FHEA).	Application
Skills/Abilities	<p>Effective teaching skills including motivating and supporting students.</p> <p>Ability to collaborate with colleagues.</p> <p>Demonstrable enthusiasm about the subject of engineering.</p> <p>Ability to develop research activity in areas relevant to Mechatronics and Intelligent Machines Engineering such as PLC – Electromechanical Systems – Mechatronics Systems – Modelling and Simulation – Automatic Control etc.</p> <p>Knowledge of software packages; MATLAB, LabVIEW, etc.</p>	Experience with development and use of distance learning and innovative teaching methods.	Application, Presentation, and Interview.
Other	<p>Ability to develop links and opportunities with engineering industries.</p> <p>Willingness and ability to travel within the UK and overseas to support and develop joint courses and/or collaborative research activities.</p>		

Willingness and ability to participate in marketing and outreach activities (Open Days, external events, visits to local schools, etc.) to inspire interest in engineering and aid recruitment.

An understanding of and demonstrable commitment to the University's Values of Common Sense, Compassion, Teamwork, Attention to Detail, and Trust as a framework for decisions, actions and behaviours.