

Job Description

Position / Job Title:	Demonstrator In Engineering Design (0.5 FTE)
Ref:	FST511 / POSN105701
Location/Building:	Talbot Campus
Faculty/Professional Service:	Faculty of Science and Technology
Group/Section:	Design and Engineering
Normal Hours per Week:	0.5 FTE (Some flexibility will be required in order to ensure that key time scales and deadlines are met).
Grade:	5
Accountable to:	Head of Department and Design

Job Purpose

The primary focus for this post is to:

1. Contribute to the delivery of the undergraduate, postgraduate and short courses and support research students in the Department and on occasion and in collaboration with appropriate members of the academic staff undertake marking of assignments.
2. Contribute to the sustained excellence of a student learning experience.

The job will include the delivery of metal working practice for courses run in the Design & Engineering Innovation Centre. The post holder will be encouraged to expand on their skills set by becoming familiar with pattern making, vacuum forming, plastic fabrication & model making, etc.

NB The balance of responsibilities may vary from time to time and will be reviewed as part of the appraisal process.

Main Responsibilities

1. Demonstrate to students within the Department the use of prototyping and finishing techniques to students on design, engineering and other courses.
2. Assist, advise and supervise students in the practical elements of their projects and assignments.
3. In collaboration with appropriate members of the academic staff monitor and assess student performance including setting and marking exams and course work and provide effective feedback and guidance to students.
4. Develop practical exercises, demonstrations and other learning aids for the students.
5. Develop student-centred learning material and packages for use in the Department.
6. Follow staff development activities to enhance the individual's ability and skills in areas relevant to the Department's activities.

7. As appropriate contribute to the Department's research and income generation activities, where required.
8. Assist with marketing of courses in the University and take part in student admission processes.
9. Contribute to new course developments and the review of existing courses when they arise.
10. Perform administrative duties as appropriate to the position.
11. Attend meetings and conferences as required.
12. Undertake any other work of an appropriate nature that may be required by the Head of Department.

Organisation Chart

Executive Dean of Faculty -> Head of Department -> Postholder

Contacts

Internal:

Members of Department and all other central services related to the delivery of courses.

External:

Professional Institutions, Industry and Design Consultancies

Challenges

To contribute to further enhancement of the reputation of the Design & Engineering provision of the Faculty of Science and Technology.

To contribute to the sustained excellence of a student learning experience.

Information Governance Responsibilities

Data User

- i. Comply with the associated data protection, information security, information management and information technology regulations, policies, processes, and procedures.

Safeguarding and Regulated Activity

If the role involves engaging in regulated activity relevant to vulnerable groups including children and disabled adults, it is an [offence to apply for](#) and perform the role, if a person is bared from engaging in regulated activity. Further information is available in BU's [Safeguarding Policy](#) and Suitability Statement on the Recruitment and Employment of Ex-offenders.

Additional Information

The Design and Engineering courses in the Faculty are well established and enjoy high praise both nationally and internationally. The Department also offers PhD and MPhil research programmes in these areas. The Department's activities include research, industrial projects and consultancy in engineering and design. Physical resources for the courses, research and industrial projects include the state-of-the-arts computer hardware software tools for design, as well as excellent workshops and laboratories with a comprehensive range of facilities. Staff development is actively encouraged in the Department and you will be supported in this.

NB:

The purpose of the job description is to indicate the general level of responsibility and location of the position. The duties may vary from time to time without changing their general character or level of responsibility.

BU is an equal opportunities employer which values a diverse workforce. The post holder must at all times carry out their responsibilities with due regard to the University's Dignity, Diversity and Equality Policy Statement.

Our highly skilled and creative workforce is comprised of individuals drawn from a broad cross section of the globe, and who reflect a variety of backgrounds, talents, perspectives and experiences to build our global learning community. Through fused activity, the post holder must have an understanding of and commitment to promoting a global outlook.

All employees have an obligation to be aware of the University's Sustainability Policy, Climate and Ecological Crisis Action Plan, Travel Plan and associated documents, and to ensure that they carry out their day-to-day activities in an environmentally responsible manner and inspire students to do the same.

FEBRUARY 2023



Person Specification

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Faculty / Service: Faculty of Science and Technology	Date: February 2023
SELECTION CRITERIA	Essential / Desirable
Knowledge (including experience & qualifications)	
Recognised higher education qualification in Mechanical or Production Engineering or related subject or equivalent.	E
Related industrial experience	E
A sound understanding and knowledge of metal working techniques and production processes	E
A sound understanding and knowledge of wood and plastic working techniques and production processes	D
Broad knowledge base appropriate for holistic design	D
Relevant teaching experience	D
Skills	
Excellent manufacturing skills with a variety of materials	E
Excellent tooling and machining skills, including milling and turning	E
Excellent welding skills	D
Pattern making- and vacuum forming skills	D
Attributes	
Ability to communicate effectively	E
Ability to work as a team member	E
Ability to work well with students and staff	E
Proactive and independent approach	E
Commitment to the role and flexibility in work practices	E
Sympathetic approach in dealing with students	E
Commitment to design and the profession	E
Ability to inspire, excite and motivate students about design and engineering	E
Ability to maintain student engagement and commitment	E