



IMPACT

3D Design Engineer

Reference: 0059-24

Grade: 8

Salary: £37,099

Contract Type: Fixed Term

Basis: Full Time

Job description

Job Purpose

Aston University has been funded by the UKSPF to support the delivery of a project called ShropAgri for companies in Shropshire. ShropAgri is concerned with the promotion and advancement of design and technology projects in the Agricultural sector. The project will utilise the expertise of Aston University in Photonics, Electronics, Mechanical and Chemical Engineering, and design to assist the business community in Shropshire.

Aston University is looking for an Engineer to work with companies' businesses from Shropshire. During the project, the post holder will offer individual companies bespoke packages to suit their needs. Offering design and engineering support to produce new products, or redesign existing products to meet the needs of new market requirements. The post holder will need to produce designs, engineering and drawings and prototypes.

Main duties and responsibilities

The engineer will help to facilitate the workshops and assist individual beneficiaries. Key tasks include:

Undertake innovation reviews with companies

- Visit and participate in meetings with companies to discuss the challenges facing their business. Investigate the innovation potential arising from design and manufacturing expertise in the College of Engineering and Physical Sciences, providing advice back to the company.

Lead and undertake collaboration projects with SMEs

- Work with companies to design and develop prototypes and liaise with the project technician to enable fabrication of parts. The engineer will also design new products using CAD software such as Fusion 360 and Solidworks and assist in design for manufacture.

Develop material for use in delivering workshops

- Assist in the generation of printed and web-based information resources describing the advanced prototyping innovation capabilities at Aston. Generate presentations and present at workshops and company visits, to inform about the latest prototyping technology.

Facilitate workshops

- Assist in the organization and planning of workshops for companies and government bodies.

Initiate and support collaboration between SMEs

- Help companies to network, facilitating collaboration in complementary or pre-competitive R&D.

Additional responsibilities

- Engage in continuous personal and professional development in line with the demands of the role, including undertaking relevant training and development activities to develop themselves and support the development of others.
- Ensure and promote the personal health, safety and wellbeing of staff, students, and external partners.
- Carry out duties in a way which promotes fairness in all matters, and which engenders trust.
- Promote equality of opportunity and support diversity and inclusion as well as working to support the University's environmental sustainability agenda and practices.
- Work with Academic staff on designs for prototypes created using photonics and electronics.
- Work with new software packages such as "nTop" to offer companies and even better design solution for their products.
- Traveling to Shropshire to meet businesses and take part in Events.

Person specification

	Essential	Method of assessment
Education and qualifications	Degree level qualification or equivalent. In Engineering or design related subject	Application form
Experience	Proven expertise of managing projects	Application form, interview and presentation
	Good knowledge of 3D CAD software and design	
	Knowledge of 3D printing methods	
Aptitude and skills	Proven ability to multitask effectively and meet demanding deadlines	Application form, interview
	Proven ability to work as part of a team	
	Proven ability to act independently and use own initiative	
	Ability to maintain a high level of accuracy and concentration	
	Flexibility and adaptability	
	Excellent organisational and administration skills	
	Good interpersonal and communication skills	
	Ability to collate information from diverse sources and compile reports	

	Essential	Method of assessment
	Ability to work with confidential material and to maintain high standards of discretion.	
	An understanding of engineering and design	

	Desirable	Method of assessment
Experience	Experience of supporting funded projects and reporting on them	Application form
	Experience of working in the HE sectors	
	Ability to run and maintain 3D printers	

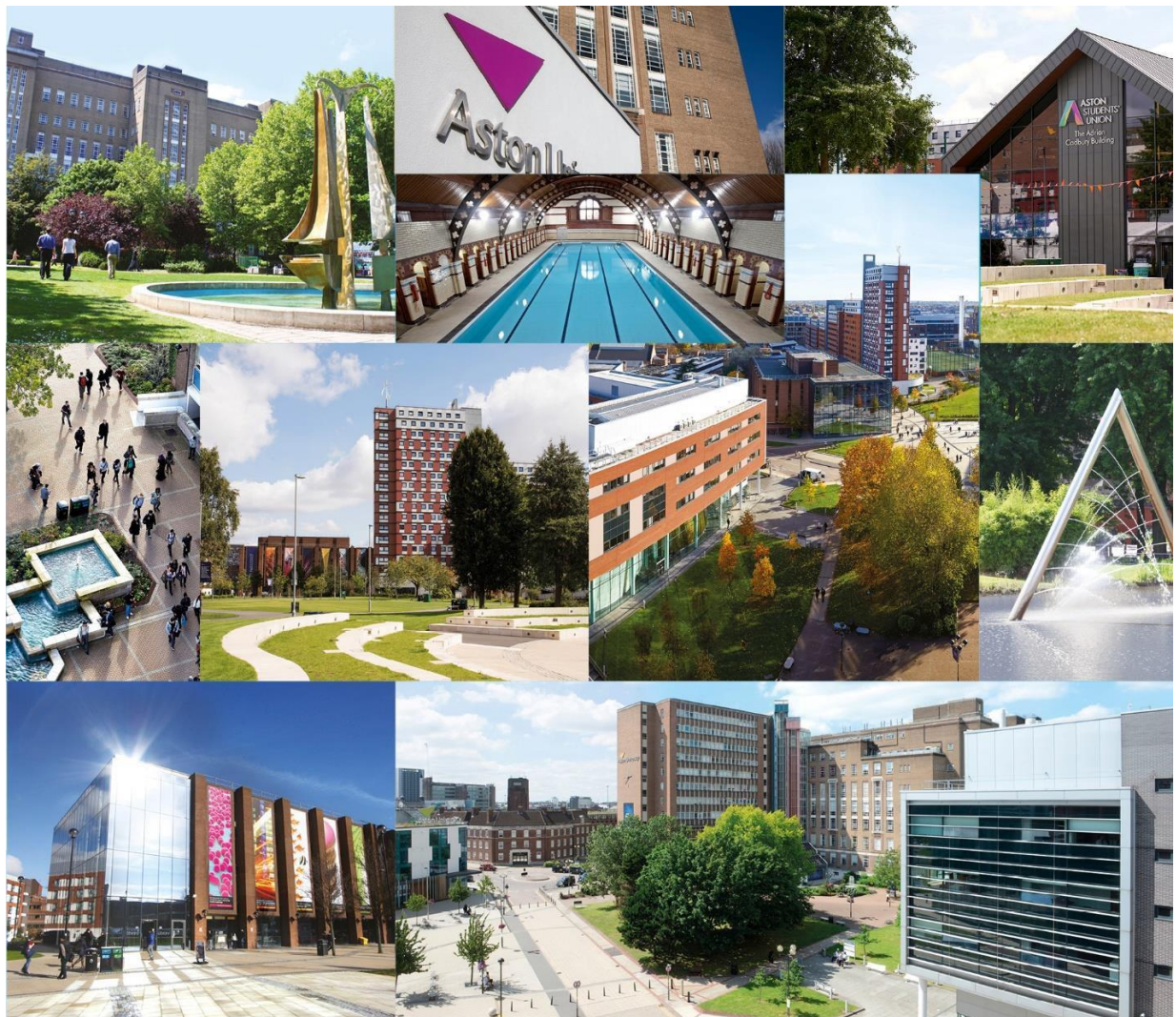
How to apply

You can apply for this role online via our website <https://www2.aston.ac.uk/staff-public/hr/jobs>.

Applications should be submitted by 23.59 on the advertised closing date.
All applicants must complete an application form, along with your CV.

Any CV sent direct to the Recruitment Team and Recruiting Manager will not be accepted.

If you require a manual application form then please contact the Recruitment Team via jobs@aston.ac.uk.



Contact information

Enquiries about the vacancy:

Name: Paul Gretton

Job Title: Senior Projects Manager- Design Factory Birmingham

Email: p.gretton@aston.ac.uk

Enquiries about the application process, shortlisting or interviews:

Recruitment Team via recruitment@aston.ac.uk

Additional information

Visit our website <https://www2.aston.ac.uk/staff-public/hr> for full details of our salary scales and benefits Aston University staff enjoy

Salary scales: <https://www2.aston.ac.uk/staff-public/hr/payroll-and-pensions/salary-scales/index>

Benefits: <https://www2.aston.ac.uk/staff-public/hr/Benefits-and-Rewards/index>

Working in Birmingham: <https://www2.aston.ac.uk/birmingham>

Employment of Ex-Offenders: Under the Rehabilitation of Offenders Act 1974, a person with a criminal record is not required to disclose any spent convictions unless the positions they applying for is listed an exception under the act.

Eligibility to work in the UK:

Post-Brexit transition period / EU Settlement Scheme

The post-Brexit transition period ended on 31 December 2020. If you are an EU/EEA citizen and you were a resident in the UK before 31 December 2020, you and your family members (including non-EU citizens need to apply to the EU Settlement Scheme to continue to live, work and study in the UK beyond 30 June 2021. The deadline for applying to the EU settlement scheme is 30 June 2021. You can apply via the Government webpage

<https://www.gov.uk/settled-status-eu-citizens-families>

Irish Nationals do not need to apply for settlement as they retain the right to work in the UK.

New immigration system for EU/EEA and Swiss Nationals who were not resident in the UK before 31 December 2020

A new immigration system has been introduced for people arriving in the UK from EEA countries with effect from 1 January 2021. In addition to those who have always required a visa, EU citizens moving to the UK to work will need to get a visa in advance. You can find more information on the following website. Candidates should check their eligibility to enter or remain in the UK in advance of making any job application via the UKVI website <https://www.gov.uk/browse/visas-immigration/work-visas>. Before applying you should ensure that you meet the requirements, including meeting the English Language requirements. If you do not meet the eligibility criteria, any application for a work visa would be unsuccessful.

If you require a visa to work in the UK the most common types of visa are:

Skilled Worker Visa

<https://www.gov.uk/skilled-worker-visa>

Global Talent Visa

If you are a leader or potential leader in one of the following fields you may be eligible to apply for a Global Talent Visa:

- Academia or Research
- Arts and Culture
- Digital Technology

Please click the following link for further information and to check your eligibility for this visa.

<https://www.gov.uk/global-talent>

Equal Opportunities: Aston University promotes equality and diversity in all aspects of its work. We aim to ensure, through our admissions policies for students, and our staff recruitment and selection processes that we encourage applications from all groups represented in the wider community at a local, national and international level.

The University will endeavour not to discriminate unfairly or illegally, directly or indirectly, against student or potential students, staff or potential staff. This commitment applies to all functions of the University and to any stage of an individual's career.

An Equal Opportunities Monitoring Form is included within the application form. Data you provide on the Equal Opportunities Monitoring Form will be included in a general database, for statistical monitoring purposes, enabling the University to monitor the effectiveness of its Policy, Codes of Practice and Guidelines on Equal Opportunities in Employment. Individuals will not be identified by name.

Data Protection: Your personal data will be processed in compliance with the Data Protection Act 2018 and the General Data Protection Regulation ((EU) 2016/679) ("GDPR"). The University's Data Protection Policy and Privacy Notices, including the Job Applicant Privacy Notice can be found at <https://www2.aston.ac.uk/data-protection>. Your application will only be used to inform the selection process, unless you are successful, in which case it will form the basis of your personal record with the University which will be stored in manual and/or electronic files. Information in statistical form on present and former employees is given to appropriate outside bodies.

Full details of our terms and conditions of service and associated policies and procedures are available online at <https://www2.aston.ac.uk/staff-public/hr/policies>

Aston University

Birmingham

B4 7ET, UK.

+44 (0)121 204 3000

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