Workshop Engineer - Welding/Additive Manufacturing Setter/Operator

Department	Advanced Forming Research Centre, Department of Design, Manufacture and Engineering Management (www.strath.ac.uk/dmem/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Technical Services	Reference No	292646
Reports To	Workshop Manager	Grade:	6
Salary Range:	£28,331 - £31,866	Contract Type:	Open Contract
FTE:	1 (35 hours/week)	Closing Date	Sunday, 13 September 2020

Job Advert

The University of Strathclyde in Glasgow possesses a large internationally rated Engineering Faculty with a proud history of successful joint ventures with industrial and enterprise partners. As part of the University's strategic development the Advanced Forming Research Centre (AFRC) has been established at Inchinnan near Glasgow's International Airport in partnership with multi-national companies such as Rolls-Royce and The Boeing Company. The AFRC is the embodiment of over £30 million collaborative investment by Industrial, Academic and Government partners to establish a world leading research facility for forging and forming technologies.

National Manufacturing Institute for Scotland (NMIS) are seeking to appoint a Workshop Engineer to support the operation of specialised equipment within its workshops. You will be primarily responsible for the set-up, operation and maintenance of machine shop equipment including equipment associated with welding technologies delivering research programmes.

To be considered for this role you will be educated to a minimum of HNC level, or equivalent; or with relevant work experience. You will have significant knowledge and expertise in welding, including materials and process types, setting, and operation, and be able to interpret engineering drawings. You will have excellent troubleshooting skills, including a methodical approach to solving complex problems, with limited guidance. You will have an ability to work autonomously, prioritising and coordinating your own workload and making decisions with minimum supervision in order to meet project deadlines, and you will have the ability to work as part of a multi-disciplinary team.

Experience on supporting production, research and development manufacturing requirements, and additive manufacturing is highly desirable.

Job Description

Brief Outline of Job:

Reporting through the Workshop Manager, you will be responsible for supporting NMIS workshop activities in relation to delivering research programmes. The role will be focussed on the setting, programming and operating the NMIS workshop equipment, primarily focused on welding technologies, and related manufacturing and research activities.

Main Activities/Responsibilities:

1.	Set, program and operate robotic and welding equipment to deliver projects for the AFRC. Additional training will be provided in house on existing and new machines.
2.	Manufacture development/research parts and processes to support the Engineering Services Team; conduct machining trials, tests and experiments according to guidelines. Record data from the operation in a relevant manner as defined by Workshop Manager and Team Lead, to meet industrial and academic research programmes.
3.	Formally demonstrate, instruct and advise on wire-arc additive manufacturing (WAAM) techniques and process improvements to Manufacturing Engineers, Researchers and apprentices.
4.	Ensure all health and safety aspects are addressed within the workshop area, including identification, containment and disposal of hazardous waste.
5.	Oversee the activity of other AFRC staff while they are carrying out work within the workshop area. Ensure health and safety regulations are adhered to and advise users accordingly.
6.	Train AFRC staff and apprentices in relevant workshop techniques.
7.	Undertake other appropriate duties as requested i.e. WAAM programming, CAD drafting and design work.
8.	Work with the AFRC engineering team, research staff, industrial partners and others to ensure appropriate workshop support for research programmes is provided.
9.	Prepare, produce, and complete risk assessments, COSHH assessments, and Planned Preventive Maintenance (PPM) records for workshop equipment.
10.	Process relevant purchase orders and invoices in line with quality procedures.
11.	Adhere to quality procedures, input to the development of quality procedures and support audits within the centre to ensure compliance to ISO accreditations.

Person Specification

Educational and/or Professional Qualifications
(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 Minimum of HNC in a relevant subject or substantial relevant work experience

D1 Completed an apprenticeship in engineering or a manufacturing field

Experience

E2 Experience of working autonomously and coordinating own workload, with minimum supervision

D2 Experience of supporting production research and development manufacturing requirements

Job Related Skills and Achievements

D3 Significant knowledge and expertise in producing welds and inspection of defects

E3 Ability to read and interpret engineering drawings.

D4 Experience of using welding equipment and/or robotics

E4 An ability to work conscientiously to produce parts in accordance with engineering drawings/welding specifications

E5 Excellent communication and interpersonal skills, with an ability to interact with a range of stakeholders.

D5 An understanding of Health and Safety regulations and procedures and relevant equipment operation

D6 Knowledge and experience in Welding Processes

D7 Knowledge and experience in Robotics

Personal Attributes

E6 An ability to work independently and as part of a team, through participation in collaborative projects.

Other Relevant Factors

E7 A good understanding of workshop practices with regards to H&S, quality and continuous improvement.

Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted before interview without further permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

Other Information

Further information on the application process and working at Strathclyde can be found on our website (http://www.strath.ac.uk/hr/workforus).

Informal enquiries about the post can be directed to Lisa Muir, Engineering Services Manager (lisa.muir@strath.ac.uk / 0141 534 5225).

Rewards and Benefits

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found here.

Conditions of Employment

Conditions of employment relating to the Technical Services staff category can be found at: Conditions of Employment.

Probation

Where applicable, the successful applicant will be required to serve a 9 month probationary period.

Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from Payroll and Pensions.

Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

Interviews

Formal interviews for this post will be held on Thursday, 1 October 2020.

Equality and Diversity

We value diversity and welcome applications from all sections of the community.

The University currently holds a Bronze Athena SWAN award, recognising our commitment to advancing women's careers in science, technology, engineering, maths and medicine (STEMM) employment in academia.