



Project Technician

Department	Mechanical and Aerospace Engineering (www.strath.ac.uk/engineering/mechanicalaerospaceengineering/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Technical Services	Reference No	610217
Reports To	Laboratory Manager	Grade	6
Salary Range	£31,396 - £34,980	Contract Type	Fixed Term (12 months)
FTE	1 (35 hours/week)	Closing Date	15/05/2024
Holidays	31 days + 11 statutory days Option to purchase additional holidays.	On Site Facilities	Car parking, sports centre, catering.
Pensions	Contributory pension scheme available to all staff including generous employer contribution.		
Training	Professional Development with Organisational and Staff Development Unit (OSDU) plus external training if required.		
Family Friendly Benefits	Generous parental leave provision, on-campus nursery and options for flexible working.		
Health and Wellbeing	University Sport centre, Occupational Health service, access to health and wellbeing events, cycle to work scheme, Employee Assistance Programme, agile working and established carers support network and carer friendly policies.		

Job Advert

The Faculty of Engineering at the University of Strathclyde is one of the largest and most successful engineering faculties in the UK, and the largest in Scotland. As a leading international technological university, Strathclyde is recognized for its world class research, knowledge exchange and educational programs. The Department of Mechanical & Aerospace Engineering's mission is to advance knowledge and commerce in mechanical and aerospace engineering and apply fresh thinking to the challenges faced by industry and society.

The Department wishes to employ a Project Technician to work within a research team, delivering technical assistance and expertise to projects led by the Advanced Composites Group (ACG) within the department. The main duties of the post will be to provide workshop fabrication, mechanical and electrical services, and operate ACG lab equipment. You will produce machined parts from engineering drawings to a high level of accuracy, using all standard engineering workshop machinery (Manual and lathes, milling machines, drill presses etc.) The post-holder will also provide fitting and maintenance services in ACG laboratory areas. The post-holder will require a broad and deep understanding of a range of methods and procedures of engineering applications.

The post-holder will liaise with researchers, academic staff, and other end users on the most effective means of test specimen production, test rig construction and general equipment maintenance. You will take responsibility for the safety and cleanliness of the work area.

The role requires a significant degree of problem solving, personal responsibility and initiative in dealing with manufacturing and installation problems and responding to unforeseen problems and circumstances with minimal guidance from Line Manager.

The successful applicant will have completed a recognised engineering apprenticeship using machine tools and an HNC in Mechanical Engineering and will have significant, relevant work experience. The applicant will be a confident communicator and

have a wide experience of many technical engineering disciplines e.g., machining, fitting skills, welding, fabrication, and manual handling.

Job Description

Brief Outline of Job:

The post-holder will be dedicated to ACG research/KE activities and provide services in parts fabrication, mechanical works, and operation of lab equipment. You will work closely with ACG researchers and Laboratory Manager to identify parts requirement and manufacturing route for construction and fine-tuning of lab test rigs, undertake primary role of machining and installation, and operate lab test rig after initial training.

Main Activities/Responsibilities:

1.	Manufacture customised devices e.g., specialised mechanical or electro-mechanical apparatus and operate, maintain, and set up the engineering equipment within the laboratories.
2.	Operate lab test rig after full training and providing technical advice and support to students and staff working within the laboratory area.
3.	Liaise with academic, knowledge exchange and research staff to ensure appropriate workshop and laboratory support for research programmes is provided. Ensure that research deadlines are achieved within agreed periods.
4.	Test and maintain equipment for experimentation and carry out experiments according to guidelines, record results, in several engineering disciplines, including pressure systems, materials analysis and composite production, following standard equipment procedures. Maintain accurate records of all experiments and technical procedures.
5.	Responsibility for safe operation of all workshop machinery within the bounds of university and HSE regulations, with the experience to prepare and produce Risk Assessments and COSHH documentation. Adherence to the University's Health and Safety and Equal Opportunities policies.
6.	Oversee the work of and delegate tasks to other technicians including manual handling operations and technical operations where appropriate.
7.	A degree of physical effort may be needed for e.g., lifting/carrying.
8.	Resolve routine work problems independently, referring more complex problems to senior colleagues.

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 Educated to a minimum of HNC level in Mechanical Engineering or a relevant discipline, in addition to having significant, relevant work experience in a similar role.

D1 Other relevant qualifications/attendance at relevant courses

E2 Recognised Engineering Apprenticeship in relevant discipline in plant fitting, mechanical fitting etc.

Experience

E3 Experience of undertaking a range of technical support activities with minimal supervision, and fitting and assembly skills.

D2 A working knowledge of manufacturing and machining processes including lathes, mills.

E4 Ability to manage, operate and maintain a laboratory environment. Experience in preparation of material samples for routine mechanical testing.

D3 Experience of welding and electrical installation

D4 Knowledge and use of CAD software

D5 Experience of supporting production or research and development manufacturing requirements

Job Related Skills and Achievements

E5 Awareness of relevant health and safety practices in a lab and office environment – preferably some experience with COSHH

D6 Ability to competently interpret engineering drawings

Personal Attributes

- E6 An ability to plan and prioritise own workload
 - E7 Good verbal and written communication skills
 - E8 Ability to work as part of a team
 - E9 Logical, analytical, and systematic approach to solving problems
 - E10 Willingness to learn new skills in other areas
 - E11 Competent in use of Microsoft Office package
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Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted 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/workforum>).

Informal enquiries about the post can be directed to Drew Irvine, Laboratory Manager (drew.irvine@strath.ac.uk).

Conditions of Employment

Conditions of employment relating to the Technical Services staff category can be found at: [Conditions of Employment](#).

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](#).

Probation

Where applicable, the successful applicant will be required to serve a 6 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 27/05/2024.

Equality and Diversity

The University of Strathclyde is a socially progressive institution that strives to ensure equality of opportunity and celebrates the diversity of its student and staff community. Strathclyde is people-oriented and collaborative, offering a supportive and flexible working culture with a deep commitment to our equality, diversity and inclusion charters, initiatives, groups and networks.

We strongly encourage applications from Black, Asian and minority ethnicity, women, LGBT+, and disabled candidates and candidates from lower socio-economic groups and care-experienced backgrounds.

University Values

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. [Our Values](#) have been derived from how we act and how we expect to be treated as part of Strathclyde.

