University of Salford MANCHESTER

Job Description

Role Title: Senior Technician (Aeronautical Engineering)

School / Dept: School of Science, Engineering and Environment

Reference: MPF4371

Grade: Grade 6

Full or Part time: Full time

Hours: 36.25

Reports to: Technician Manager

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Overview

The role of Senior Technician (Aerodynamics) has become vacant in the University's School of Science, Engineering and Environment (SSEE). SSEE is a large multi-disciplinary School comprising around 400 staff, including around 50 highly skilled technicians and approximately 4500 students studying on a range of taught and research programmes at BSc, BEng, MEng, MSc, MPhil and PhD level. SSEE embraces subjects as diverse as Zoology, Parasitology, Mathematics, Computer Science, Engineering, Geography, Biomedical Science, Architecture and Construction Management, in a range of locations on the Peel Park campus.

The university could not deliver high quality research, teaching and knowledge transfer without the work of our skilled technical staff at all levels of the institution, and we aim to ensure the contribution technicians make is fully recognised. The University of Salford is a signatory of the national Technician Commitment, which aims to ensure the key themes of visibility, recognition, career development and sustainability are developed for technicians working in higher education and research. We aim to do this by pledging action against the themes, ensuring technician roles are viewed as professional careers, developing potential career pathways and encouraging career development opportunities.

The role of Senior Technician to ensuring that students within SSEE can receive the best student experience possible in the degree programmes that encompass Aeronautical & Mechanical Engineering. The successful candidate should have knowledge of fluid flow equipment, measurement systems and CAD software. Some knowledge and experience of aerospace industry would also be desirable.

The role is primarily based in the Aeronautical and Mechanical Laboratory, but the successful candidate may be required to provide support across any of the specialist laboratories as needed.

Role Purpose

The appointee will join the existing team of technicians in order to provide assistance to laboratory, specialist spaces, and key stakeholders.

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Principal Duties & Responsibilities

- Demonstration - Demonstrates the use of specialist equipment or techniques to students and staff. Demonstration can be in a formal setting, such as a taught practical lesson, or informal, like drop-in sessions. Creation of learning content relating to the demonstration may be needed to support and aid learning. Applies good practice in learning content delivery.

- Academic knowledge - Develop Knowledge of the relevant academic area. Contributes academically to the development and or delivery of research/teaching/enterprise activities. Able to evaluate the benefits and costs of different approaches.

- Safety and incident management - Directs assessments of specialist space health and safety. Participates in assessments of specialist health and safety. Applies health and safety information and ensures compliance. Reviews specialist space health and safety at regular time points. Prioritises and diagnoses incidents according to university procedures. Investigates causes of incidents and seeks resolution. Escalates unresolved incidents. Facilitates recovery, following resolution of incidents. Documents and closes resolved incidents according to university procedures.

- Relationship management - Implements stakeholder engagement/communications plan. Deals with problems and issues, managing resolutions, corrective actions, lessons learned and the collection and dissemination of relevant information. Collects and uses feedback from customers and stakeholders to help measure effectiveness of stakeholder management. Helps develop and enhance customer and stakeholder relationships.

- Equipment maintenance – Completes regular maintenance tasks on equipment and facilities in own specialist spaces. Investigates escalated issues to service owners and seeks resolution. Investigates equipment maintenance and informs service owners in order to maximise durability and minimise probability of recurring issues and contribute to service improvement.

- Customer assistance – Monitors service delivery channels (human, digital, self-service, automated) and collects performance data. Assists with the specification, development, research and evaluation of services standards. Applies these standards to resolve or escalate issues and gives technical briefings to staff members.

- Sourcing / procuring – Reviews business cases (requirements, potential benefits and options) and chooses appropriate procurement options. Using market knowledge to find appropriate suppliers and gathers quotation in accordance with university policy. Uses specialist knowledge to inform purchase. Completes and monitors purchases in partnership with other departments i.e. finance.

- Where appropriate mentor colleagues of a lower grade.

- To engage in the Technicians Commitment at the university https://www.salford.ac.uk/technicians-commitment

Generic Duties

- Perform any other duties appropriate to the grade as may be required by the Head of School/Head of Division etc.

- Comply with the personal health and safety responsibilities specified in the University Health and Safety policy.

- To engage with the University's commitment to put our students first and deliver services which are customer orientated, represent value for money and contribute to the financial and environmental sustainability of the University when undertaking all duties and aspects of the role.

- Advance equality, support our work towards eliminating unlawful discrimination, foster an inclusive study and work environment for students, staff and visitors in accordance with our public sector equality duties and university policy.

This role detail is a guide to the work you will initially be required to undertake. It may be changed from time to time to meet changing circumstances. It does not form part of your Contract of Employment.

Person specification follows on next page

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Person Specification

The successful candidate should demonstrate the following, which are ‘Essential’ (E) or ‘Desirable’ (D)

Qualifications

1. Hold a relevant qualification and / or equivalent professional experience in operating and maintaining Fluid Flow and ThermoFluid systems (E)

Background and Experience

2. Experience of working in and maintaining Aeronautical or Mechanical laboratories (E)

3. Experience in dealing with internal and external customers (D)

4. Experience of procurement processes (D)

5. Experience of maintaining health and safety policies and procedures in relation to laboratories (E)

6. Experience of maintaining equipment through problem solving and trouble shooting (E)

Knowledge

7. A knowledge of health and safety procedures and its application to a laboratory environment (D)

8. Experience of providing teaching and research assistance, particularly in relation to aeronautical and mechanical engineering (E)

9. How to operate and maintain laboratory equipment and procedures in relation to fluid flow and thermo fluid systems and knowledge of fluid measurement techniques. Laboratory equipment on site includes wind tunnels, gas turbines, internal combustion engines, and compressors. Fluid flow measurement techniques and instrumentation used include sting force balances, drag rakes, pressure taps, hot wire anemometry, particle image velocimetry, and similar systems (E)

10. Experience of relevant skills and techniques including CAD design and modelling using software such as AutoCAD, SolidWorks, and/or CATIA, with manufacturing of test models (e.g. wind tunnel models) and additive manufacturing methods, including design for and use of 3D printing equipment, with an awareness of aerospace industry applications (E)

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Skills and Competencies

11. Excellent communication and interpersonal skills (E)

12. A respectful approach and experience of working as part of a successful team (E)

13. Ability to act alone with precision to prioritise workload (D)