Level 1 Specialist Technician (Research Facility)

1 JOB DESCRIPTION

Faculty / School or Division: Faculty of Science and Engineering

Faculty/School or Division Address: Bristol Robotics Laboratory, T-Block, UWE Bristol, BS16 1QY

Job Family:	Technical Services		
Grade:	G	**Salary range:**	£32,722 - £36,320 per annum
Hours of work:	35	**Contract type:**	Open-ended
Work pattern:	Full Time	**Vacancy Reference Number: SUPP113920**	

1.1 Main Job Purpose

Focussed on delivering a specialist technical service. Developing up to date specialist knowledge to achieve objectives for Bristol Robotics Lab. They may train staff, students and other technical colleagues in their area of specialism.

Bristol Robotics Laboratory (BRL) is the most comprehensive academic centre for multi-disciplinary robotics research in the UK. It is a collaborative partnership between the University of the West of England (UWE Bristol) and the University of Bristol, and home to a community of over 450 academics, researchers and industry practitioners. Together, they are world leaders in current thinking on service robotics, intelligent autonomous systems and bio-engineering.

1.2 Main Statement of Responsibilities

Professional Practice

Provision of specialist support for complex activities within a facility, laboratory or a designated suite of laboratories. Typical duties would include:

- Working with key stakeholders (e.g. Principle Investigators) to provide specialist services and/or plan research experiments.
- Keeping accurate records of methods and results, monitoring quality of output.
- Operating, servicing, maintenance and calibration of specialist equipment.
- Diagnose and rectify complex problems to find short and long-term solutions.
- Sourcing and maintaining stocks of lab materials and consumables, as well as input into larger and more specialist purchases, liaising with relevant contacts and suppliers to ensure cost effectiveness.
- Writing risk assessments and method statements/standard operating procedures (SOPs), ensuring compliance with all relevant guidelines.

- Training others in specialist techniques, processes and procedures where necessary.
- Respond independently using initiative and judgement to find and offer solutions.
- Flexible and responsive based on service need. Give task direction to others when necessary.

The Student Experience

Using specialist experience to provide services, guidance, troubleshooting, support and training to students conducting research studies or projects.

Planning & Organising Resources

Plan, manage and prioritise own workload, with limited management direction; responding to the changing priorities and needs of a busy, dynamic environment.

Liaise and build working relationships with key contacts/customers (internal and external) in order to identify how to deliver operational efficiency and quality of service.

Governance and Compliance

Use of specialist knowledge to implement and review local rules, University Health & Safety policies and legislative requirements; set and uphold standards, e.g. safe working, good laboratory practices, relevant legal frameworks.

Report, advise and deal with any incidents of non-compliance as appropriate.

Leadership and Management

Where appropriate induction and supervision of students or other technical staff; provide task direction where necessary to achieve objectives.

1.3 Relationships

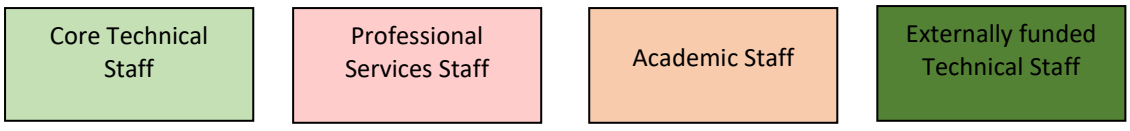
Line manager: Appropriate Technical Manager

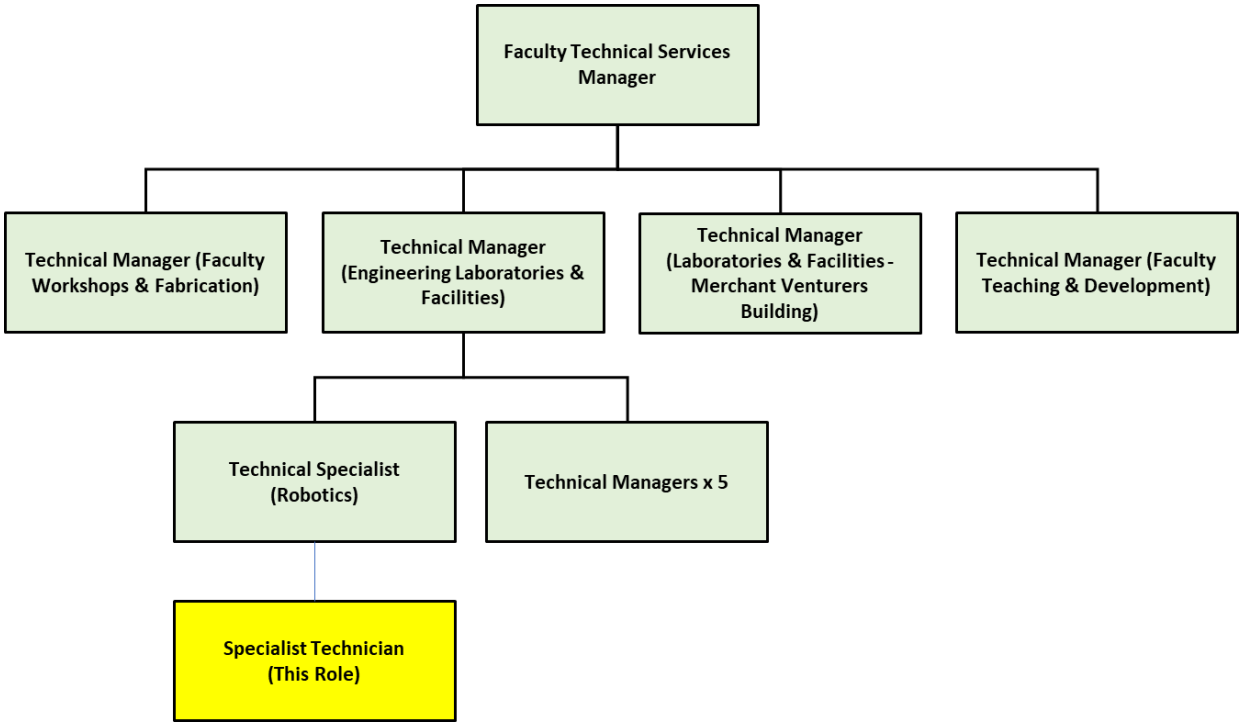
Line manager to (where appropriate): n/a

Associate line manager (for externally funded roles with an academic line manager): n/a

1.4 Organisation Charts

Key for all diagrams





1.5 Job Hazards/Safety Critical Duties (Pre-employment health screening)

The following duties are an intrinsic part of the role and any offer of employment will be conditional upon satisfactory health screening by the University Occupational Health Service:

- Use of laboratory fabrication COSHH chemicals such as adhesives, solvents and related
- products (using appropriate control measures and PPE).
- • Manual handling
- • Use of a soldering iron and associated accessories and consumables
- • Use of light hand tools
- • Use of laboratory-based 3D printers and enclosed fabrication systems
- • Use and working in Wet laboratory environment
  • Working in a light industrial/machining environment

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2 PERSON SPECIFICATION

2.1 Relevant Experience, Skills and Knowledge

Essential

- Detailed, current specialist knowledge and refined skills; 3 + years' experience in prototyping techniques and methodologies in at least one of the following: electrical systems, electronic systems, simple mechanical systems, mechatronic systems

- Proficient use of rapid prototyping tools (e.g. laser cutting equipment, 3D printing hardware and techniques, printed circuit board design, molding, fabrication and repair) to quickly develop creative and novel ideas from concept to reality
- Excellent IT skills, working knowledge of relevant specialist software
- Excellent organisational skills, with the ability to deal with and prioritise a range of ongoing tasks at the same time, and to be able to cope under pressure
- Ability to review and advise on complex procedures
- Ability to work independently towards pre-defined goals
- Consistently maintaining a high level of accuracy and precision in all areas of work
- Innovative approach to work

2.2 Relevant Qualifications

Essential

- Relevant qualifications at GCSE/A-Level, or NVQ, or equivalent level, and broad relevant work experience; or substantial work experience in a relevant role.

Desirable

- A working knowledge of coding (e.g. C++, Python)
- Relevant qualification at degree or equivalent level
- Appropriate professional registration

2.3 Communication and Interpersonal Skills

Essential

- Polite and courteous approach when dealing with others
- Ability to effectively communicate with a wide variety of internal and external contacts
- Ability to work both independently and as part of a team
- Ability to convey knowledge and complex technical information to service users
- Good influencing skills

2.4 Additional Criteria

Essential

- Commitment to customer care and to providing a quality service
- Take ownership for continuous improvement in own knowledge, practice and skills
- Ability to use initiative in service delivery