

Technical Specialist (Powertrains)

Job Ref: REQ250309

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

Loughborough University's Technician Commitment

Loughborough University is a signatory of the national Technician Commitment Scheme which pledges to ensure the visibility, recognition, career development and sustainability of their technical staff. The successful candidate will therefore be joining a thriving and visible community of staff with opportunities for collaboration and networking, and a clearly defined career pathway against which they can map and plan their own professional development and career progression.

School Summary

The postholder will work in the School of AACME, based in the Department of Aeronautical and Automotive Engineering, in the Engines and Powertrains Facility. More details of the department and its teaching and research are available here: [Aeronautical and Automotive Engineering | Loughborough University](#).

Job Description

Job Grade: Grade 6, Technical Teaching and Specialist (TTS)

Job Purpose

The postholder will coordinate operations and facilities in the Engines and Powertrains Facility, ensuring compliance with health and safety standards and the effective management of facilities, equipment and resources. This position plays a critical role in advancing the School's research endeavours through the provision of advanced technical expertise.

The postholder will provide specialist and skilled technical engineering support for academic staff, students and researchers using the Engines and Powertrains facility and workshops. The postholder will also support teaching activities within the Powertrains Facility.

Job Duties

- Coordinate technical operations in the specialist Powertrains research facility, ensuring the availability of equipment, materials, and resources necessary to successfully meet School research aims.
- Coordinate the maintenance, procurement, and upgrading of specialist research equipment and consumables, within allocated budgets and University procurement processes.
- Stay current with advancements in relevant techniques and technologies. This may involve attending events and professional development courses to enhance knowledge and expertise.
- Build and maintain effective working relationships with academic, technical and operational staff, students, external stakeholders, and visitors, effectively communicating complex information to a range of audiences.
- Assist academic and other technical staff in designing and conducting research activities within the Powertrains Facility, providing expert technical support and troubleshooting complex technical issues.
- Set up and maintain specialised electronic sampling, measuring and analytical equipment and diagnosing faults in this equipment. Carry out data acquisition through use of sophisticated instrumentation and assist with analysis of the results.

- Using a high degree of technical expertise, carry out engine diagnostics and controls and manufacture and modify parts of engines and other apparatus. Competently use a wide range of mechanical workshop disciplines and equipment and be able to demonstrate them clearly to students and staff.
- Identify, address, and escalate technical issues to the Technical Manager, offering solutions based on own knowledge and expertise.
- Maintain a thorough understanding of Health and Safety regulations, implementing and enforcing protocols to ensure safe working environments and operations across the Powertrains facility.
- Ensure compliance with regulatory standards and university policies, particularly related to health and safety, ethical research, and data security.
- Develop, maintain, and refine technical documentation, including standard operating procedures and experimental protocols, ensuring clear communication of technical processes.
- Supervise the work of technical staff at lower grades who work in your specialist area, fostering a collaborative work environment in line with research objectives. Escalate staffing issues to the Technical Manager as required.
- Participate in open days, visit days and other outreach activities, representing the School's technical capabilities and research strengths to a broad audience.
- Act as Safety Officer for the department, signing off Risk/CoSHH assessments and coordinating correct adherence to safety procedures across the building.
- Undertake other general tasks and duties, commensurate with the level of the position, as directed by the Line Manager.

Points To Note

The purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed.

Special Conditions

All staff have a statutory responsibility to take reasonable care of themselves, others and the environment and to prevent harm by their acts or omissions. All staff are therefore required to adhere to the University's Health, Safety and Environmental Policy & Procedures.

All staff should observe the University's Equality & Diversity Commitment and equality legislation at all times. Our Commitment is detailed here: <https://www.lboro.ac.uk/equity-diversity-inclusion/our-commitment/>.

Successful completion of probation will be dependent on attendance at the University's mandatory courses which include Respecting Diversity and, where appropriate, Recruitment and Selection.

Organisational Responsibility

Reports to: Senior Technical Specialist (Powertrains)

Person Specification

Your application will be reviewed against the essential and desirable criteria listed below. Applicants are strongly advised to explicitly state and evidence how they meet each of the essential (and desirable) criteria in their application. Stages of assessment are as follows:

- 1 – Application
- 2 – Test/Assessment Centre/Presentation
- 3 – Interview

Essential Criteria

Area	Criteria	Stage
Experience	Experience of running specific laboratories, workshops and other technical facilities and associated activities related to your specialism, with minimal supervision.	1,3
	Experience of working effectively and collegiately with internal and external stakeholders at all levels.	1,3
	Experience of co-ordinating the effective and safe operation, maintenance and upgrade of equipment.	1,3
	Experience of co-ordinating the procurement of equipment and consumables within agreed budgets, in accordance with agreed policies.	1,3
	Experience of applying relevant processes and techniques, including engine diagnostics & controls, electronic sampling, using analytical equipment and diagnosing faults.	1,3
	Experience of ensuring that correct Health & Safety procedures and practices are being followed by all stakeholders working in your specialist area.	1,3
	Experience of ensuring compliance with relevant standards and regulations.	1,3
	Experience of carrying out or designing experiments and studies, and the instrumentation, equipment and facilities to support this.	1,3
	Experience of using office-based and relevant specialist software	1,3
	Experience in the use of advanced workshop machinery e.g. lathes and CNC machine tools.	1,2,3
Skills and abilities	Ability to use good communication and interpersonal skills to work effectively with a range of stakeholders.	1,2,3
	Ability and passion for communicating specialist knowledge and complex information in an effective and engaging way to a range of audiences.	1,2,3
	Ability to work efficiently and accurately, planning and prioritising your own workload to deliver tasks within agreed timescales.	1,2,3
	Ability to work independently, apply your own initiative, be self-motivated and lead own workload, projects and teams.	1,3
	Ability to learn new skills and solve problems, using initiative and judgement in more complex situations.	1,2,3
	Ability to establish, develop and maintain effective documentation such as Standard Operating Procedures and Safety documents.	1,2,3
Training	Proven commitment to ongoing professional development, including mandatory and role-specific training.	1,3
	Willingness to take on wider University roles on behalf of the School/Service, such as Health & Safety or other roles.	1,3

	Willingness to undertake role specific training as techniques and specialist skills evolve	1,3
Equity, Diversity and Inclusion (EDI)	Commitment to understanding Equity, Diversity and Inclusion (EDI) challenges and observing University EDI guidelines.	1,3
Qualifications	Level 4, or equivalent qualification, in a relevant subject, including but not limited to: Certificate of higher education (CertHE); Higher apprenticeship; Higher national certificate (HNC); Level 4 award; Level 4 certificate; Level 4 diploma; Level 4 NVQ. <i>While a Level 4, or equivalent, qualification is preferred, we recognise the value of practical and 'real-world' knowledge and expertise, therefore candidates with a strong track record will be considered based on their demonstrated skills, achievements, and contributions to the field.</i>	1
	Willingness to work towards professional accreditation.	1
Other	Willingness to provide support for external visits relating to your field of expertise.	1,3
	Willingness to travel for work purposes, such as visiting suppliers, training and professional development.	1,3

Desirable Criteria

Area	Criteria	Stage
Experience	Experience of co-ordinating or supervising the work of others to achieve successful outputs and outcomes.	1,3
	Experience of providing practical demonstration and instruction in a technical area.	1,3
	Experience of specialist printing equipment, software and processes such as 3D printing	1,3
	Experience in the control of electric motors and drives.	1,2,3
	Experience of working with alternative liquid or gaseous fuels	1,2,3
Skills and abilities	Ability to use conventional workshop machinery and hand tools.	1,2,3
Other	Current driving license (to meet University requirements for driving University/hired vehicles).	1,3

Conditions of Service

The position is **full time** and **open-ended**. Salary will be on the **Technical Teaching and Specialist** job family at **Grade 6**, £35,116 - £45,413 per annum, at a starting salary to be confirmed on offer of appointment. The appointment will be subject to the University's Terms and Conditions of Employment for staff grades 6 and above, which can be found at: <https://www.lboro.ac.uk/services/hr/conditions-of-service/>.

The University is committed to enabling staff to maintain a healthy work-home balance and has a number of family-friendly policies which can be found at: <http://www.lboro.ac.uk/services/hr/support/>

The University offers a wide range of employee benefits, which can be found at: <http://www.lboro.ac.uk/services/hr/benefits/>

We also offer an on-campus nursery with subsidised places, subsidised places at local holiday clubs and a childcare voucher scheme, which can be found at: <https://www.lboro.ac.uk/services/hr/topics/childcare-support/>

In addition, the University is supportive, wherever possible, of flexible working arrangements.

We also strive to create a culture that supports equality and celebrates diversity throughout the campus. The University holds a Bronze Athena SWAN award which recognises the importance of support for women at all stages of their academic career. Further information on Athena SWAN can be found at: <http://www.lboro.ac.uk/services/hr/athena-swan/>

Applications

The closing date for receipt of applications is **May 16th**. Interviews will be held shortly afterwards.