### Purpose of role

The University of Nottingham has received European Regional Development Funds (ERDF) to continue with the Energy Innovation and Collaboration (EIC) project, providing a range of support to local Small to Medium Enterprises (SMEs), encouraging energy efficiency and renewable energy use as well as accelerating research, innovation and adoption of low-carbon technologies.

The post will be responsible for the provision of technical support to the activities of the EIC offering expertise in energy efficiency and low-carbon technologies. Alongside colleagues in the EIC, the post holder will support the installation of testing equipment at Client sites (e.g. energy loggers), the testing and development of low-carbon technologies at the Research Acceleration and Demonstration Building, the building of basic technology prototypes and the use of University test-beds such as the climatic chamber and the Creative Energy Homes heat network. These activities will support the delivery of a business engagement programme to reach out to industry enabling it to access the Energy Technologies Research Institute’s (ETRI) and the Energy Research Accelerator’s (ERA) research base and facilities, encouraging knowledge transfer activities between industry and academia.

### Main responsibilities

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<th>(Primary accountabilities and responsibilities expected to fulfil the role)</th>
<th>% time per year</th>
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<tbody>
<tr>
<td><strong>1</strong></td>
<td>Provide technical consultancy and advice to SMEs through support available from the EIC project, including one-to-one consultations, reports and workshop sessions, access to facilities and expertise, a grants scheme, energy efficiency and the implementation and adoption of low-carbon technologies, directly supporting companies to access University expertise and facilities.</td>
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<td><strong>2</strong></td>
<td>Use of ETRI and ERA facilities including the climatic chamber and laboratory equipment, supporting SMEs to access these facilities and liaising with academics responsible for the testbeds. Devises and implements experiments and tests on behalf of the SMEs which may include control systems to monitor efficiency and performance of new low carbon innovations and materials.</td>
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<td><strong>3</strong></td>
<td>Researches, on behalf of the SME, problem areas to improve knowledge and understanding of low carbon technologies and evaluate new theories and techniques in order to provide solutions to the problems identified by the SME.</td>
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<td><strong>4</strong></td>
<td>Development, building and testing of low-carbon technology prototypes as required by SMEs on the Programme. This may include energy efficiency testing, change of prototype materials and/or after assessing the feasibility of a requirement, designing new systems and equipment in collaboration with SMEs to meet market requirements.</td>
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<td>5</td>
<td>Installation and interfacing of relevant EIC equipment (usually at SME sites) including consumption monitoring tools such as energy, temperature, compressed air and water loggers and use of infrared thermography camera. Subsequent interpretation and reporting of collected data as regards energy efficiency implications for the SME and communicating these results to the SME.</td>
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<td>6</td>
<td>Maintenance and general housekeeping of EIC equipment, ensuring all machines, processes and equipment are maintained and useable, and that any maintenance and repairs are recorded.</td>
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<td>7</td>
<td>Any other duties appropriate to the grade and role as required by the EIC Project Manager.</td>
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## Person specification

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<th>Skills</th>
<th>Essential</th>
<th>Desirable</th>
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|        | ▪ Skills in the planning and execution of energy monitoring installations in a business environment.  
▪ Skills in the use of resource consumption monitoring technologies including data interpretation.  
▪ Ability to assess and organise resources effectively recognised from previous proven project management experience.  
▪ Excellent organisation skills, with proven ability to prioritise a varied workload with minimal supervision.  
▪ Excellent oral and written communication skills to enable identification and understanding of EIC client requirements.  
▪ Ability to work well in a team.  
▪ Flexible, willing to adapt to the changing requirements of the project, ETRI and ERA  
▪ Knowledge of the low-carbon sector and relevant energy topics including awareness of new technologies.  
▪ Skills in basic prototype building. | |

| Knowledge and experience | Substantial proven experience in an engineering background.  
▪ Experience of working with businesses or in an industry environment, particularly in technology development.  
▪ Understanding of Health and Safety regulations and procedures. | ▪ Experience of carrying out technology transfer between Higher Education and industry.  
▪ Experience of carrying out energy efficiency surveys including the installation of consumption loggers and interpretation of data. |

| Qualifications, certification and training (relevant to role) | ▪ BSc/BTEC Advanced Professional Award/NVQ level 4 or equivalent in an Engineering discipline, plus proven track record with extensive work experience and skills in a relevant technical or scientific role  
▪ Knowledge of a wide range of engineering disciplines | ▪ Qualified to undertake electrical installations in accordance with Part P of Building Regulations.  
▪ Additional qualifications in Health & Safety.  
▪ Full UK driving license and access to own vehicle. |

The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.
Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University’s strategy, vision and values. The following are essential to the role:

Valuing people
Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.

Taking ownership
Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.

Forward thinking
Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.

Professional pride
Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.

Always inclusive
Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others

- Line manager
- Role holder
- Key stakeholder relationships
  - Colleagues
  - Students
The University of Nottingham is a leading international centre for energy research, with a reputation for excellence across a broad range of technologies encompassing renewable energy, decarbonised fuels, energy storage, the built environment and smart grids. The Energy Technology Research Institute (ETRI) brings together over 100 academics from four Faculties to develop multidisciplinary collaborations and deliver the University's Energy Strategy.

The Energy Innovation and Collaboration (EIC) - Energy for Business Project is a £7.2m ERDF six-year funded programme which launched in 2016. The project supports local businesses in the form of product innovation, expert consultancy, access to world-class expertise and facilities, student placements and funding through a capital grant scheme for low-carbon or energy saving projects.

The programme will be embedded into ETRI and aligned to the Energy Research Accelerator initiative. A gateway will be provided to SMEs to access University facilities and expertise at no or low cost through a number of mechanisms:

- Assistance to undertake energy efficiency reviews identifying opportunities for increased efficiency, adoption of low-carbon technologies and renewable energy generation.
- Enable SMEs to access University expertise through academics and funded student placements to develop innovative low-carbon technologies and services new to the market.
- Provide facilities which enable eligible companies to undertake extensive proving trials using relevant technologies (both ETRI and ERA facilities).
- Provide small capital implementation grants to increase the uptake of low-carbon technologies.
- Provide a small consumables budget funding to facilitate access to University test beds to undertake R&D and/or independent assessments of a company’s low-carbon innovation.

(https://nottingham.ac.uk/energyforbusiness)

The University of Nottingham strongly endorses Athena SWAN principles, with commitment from all levels of the organisation in furthering women’s careers. It is our mission to ensure equal opportunity, best working practices and fair policies for all.