

Research Engineer 1 – Digital Technologies

Role Purpose:

To contribute to the delivery and realisation of project work through preparation, development, research, design, testing and analysis work in line with technology team requirements. The Engineer 1 will work under technical supervision of line manager and senior colleagues, supporting with a range of activities to meet technology team objectives.

Key Responsibilities:

- To embrace and role model the desired behaviours to exemplify our Company values, promoting and ethical, positive company culture.
- To maintain consistent and documented compliance with all relevant Safety, Health and Environmental (SHE), Good Manufacturing Practice (GMP), Data Integrity (DI), quality and best practice requirements.
- To keep up to date with developments in areas relevant to role, and/or legislative and SHE related changes as communicated by senior colleagues, ensuring understanding of these and any associated new best practice, methods, or techniques.
- To present and formally report experimental conclusions and supporting data for internal peer review and submission to clients, to agreed timescales and standards.
- To actively engage in hazard studies / SRA studies and discussions, as appropriate to role level.
- To set up, plan and execute experimental / pilot scale runs and analyse, interpret, and report the results of these within agreed timescales and quality standards, and in accordance with project / client requirements.
- To be responsible for providing clearly documented records of technical data, decisions, methodologies, calculations, and software use in an agreed format.
- To take ownership in agreeing weekly workplans with line manager, project manager(s) and other relevant stakeholders, and delivering plan to agreed schedule.
- To be responsible for the maintenance and calibration of equipment to ensure it operates in a safe and efficient manner and is available to meet customer needs.
- To take responsibility for general housekeeping of technical areas, to contribute to a safe and healthy workplace.

Responsibilities specific to role

- To support and contribute to the technical delivery of programmes of work in the digital strategy.
- To keep up to date with research and techniques relevant to the digital space and to develop, implement and improve existing methods/technologies in the platform.
- To contribute to a culture of continuous development in data science and use this to support non-data science colleagues in the principles and practices in the field.

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Direct reports: No direct reports

Person Specification

Education / Qualifications:

Essential:	Desirable:
<p>Educated to HNC or Foundation Degree level (or equivalent) in a Scientific/Engineering/Mathematical discipline plus relevant industrial experience</p> <p>Or</p> <p>Educated to Degree level (or equivalent) in a Scientific/Engineering/Mathematical discipline</p>	<p>Educated to master's degree level (or equivalent) in a Scientific/Engineering discipline</p> <p>Or</p> <p>Educated to PhD level (or equivalent) in a Scientific/Engineering discipline</p>

Competencies and behaviours	
Leadership (Core)	Decision Making (Enabling)
<ul style="list-style-type: none"> Respects and values our diverse people and the differing talents, skills, and backgrounds that they bring to projects and day-to-day work. Has a positive influence on those they are in contact with. Gains the respect and confidence of colleagues and supports them in achieving their goals and targets. Aligns their behaviours and actions to our PRIDE values, vision, and goals. 	<ul style="list-style-type: none"> Pro-actively identifies and prioritises the key issues involved to facilitate the decision-making process. Seeks input from the relevant stakeholders when appropriate, considers risks, and takes accountability for the impact a decision may have on others. Makes decisions in a timely manner. Identifies the key factors in a complex problem.
Communication (Core)	Developing self and others (Enabling)
<ul style="list-style-type: none"> Communicates in a clear and concise manner, covering all relevant points in a timely manner. Uses the appropriate route and format to communicate. Confirms understanding of others communication. Asks questions to understand other people's viewpoints, keeping an open mind and embracing new ideas. 	<ul style="list-style-type: none"> Supports others in their development. Is personally committed to, and actively seeks, opportunities to improve continuously. Is comfortable learning from the experiences of others and recognises the differing strengths of team members. Provides honest helpful feedback to others on their performance. Insightful about self, strengths, and limitations, and how to maximise contribution.

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Collaboration (Enabling)	Delivery (Enabling)
<ul style="list-style-type: none"> Understands the value of establishing effective and supportive relationships, and collaborative working. Actively listens, questions, and observes body language to understand communication from others. Cultivates and maintains partnerships across departments to deliver impactful innovations for the business. 	<ul style="list-style-type: none"> Prioritises activities based on their impact and strategic importance. Takes responsibility and monitors own performance. Can articulate how their work feeds into projects. Creates and exploits useful metrics. Displays commitment and engagement to own work. Pursues everything with energy, drive, and a need to finish, even when faced with setbacks or resistance.

Knowledge and Experience:

Essential:	Desirable:
<p>Will have a background in an applied science (physics, chemistry, biology, maths, engineering) and/or in data science.</p> <p>Will be able to solve and contextualise scientific problems using data science.</p> <p>Will learn and apply themselves to materials science, relevant to batteries, pharma, sustainable materials and any other market sectors.</p> <p>Will be able to code in python or be able to pick it up rapidly.</p> <p>Will possess knowledge of several of the following,</p> <ul style="list-style-type: none"> Machine Learning Techniques Predictive Modelling (Adaptive) Design of Experiments Data Scripting/Automation and Visualisation Image Analysis/Machine Vision Data models, Databasing GitHub Data science in Cloud infrastructures (AWS, Azure etc.) 	<p>Chartered status with a relevant professional institution</p> <p>Is a member of a relevant professional body.</p> <p>A specific background/knowledge relevant to the batteries, pharma, materials or automation; this hugely beneficial to the role (but is not strictly essential).</p> <p>Defined experience working with cloud architectures would be beneficial to the role (but is not strictly essential)</p>

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Will possess willingness to learn and apply new methods of data science and coding.

Can demonstrate evidence of knowledge sharing and network building practice across teams or groups.

Has ability to apply theoretical and practical scientific methods to contribute to business activities.

Has confidence to use own judgement and initiative within standard engineering / scientific practices, as well as an understanding of when to seek advice from colleagues.