

Research Scientist 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 team and business unit requirements. The Scientist / Engineer 1 will work under technical supervision of line manager and senior colleagues, supporting with a range of activities to meet business unit objectives.

Key Responsibilities:

- To maintain consistent and documented compliance with all relevant Safety, Health and Environmental (SHE), 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.

Direct reports: No direct reports

Research Scientist 1 – Digital Technologies

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>Chartered status with a relevant professional institution.</p> <p>Or</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 the diversity of talents, skills, and backgrounds that others bring to joint projects / work. Has a positive influence on those in contact with. Gains the respect and confidence of colleagues and supports them in achieving their goals and targets. Aligns own behaviours and actions to CPI's 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 	<ul style="list-style-type: none"> Supports others in their development. Is personally committed to, and actively seeks, opportunities to improve continuously. Provides honest helpful feedback to others on their performance. Insightful about self, strengths, and limitations, and how to maximise contribution.
Collaboration (Enabling)	Delivery (Enabling)
<ul style="list-style-type: none"> Understands the value of establishing effective and supportive relationships, and collaborative working. 	<ul style="list-style-type: none"> Prioritises activities based on their impact and strategic importance.

Research Scientist 1 – Digital Technologies

- | | |
|--|---|
| <ul style="list-style-type: none"> • Actively listens, questions, and observes body language so as to understand communication from others. • Cultivates and maintains partnerships across departments to deliver value for the business | <ul style="list-style-type: none"> • 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 possess knowledge/experience in one or more of the following from industry and/or academia:</p> <ul style="list-style-type: none"> • data science, processing, and analytics • process modelling or model predictive control • the application of machine learning • Use of coding languages relevant to background such as Python, R, Matlab. <p>Will possess willingness to learn new methods of data science and coding languages.</p> <p>Can demonstrate evidence of knowledge sharing and network building practice across teams or groups.</p> <p>Has ability to apply theoretical and practical scientific methods to contribute to business activities.</p> <p>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.</p>	<p>Is a member of a relevant professional body.</p>