Placement Student – Innovation Science
Job Description

Role Purpose:

To contribute to the delivery and realisation of ongoing and future project work through preparation, development, research, testing and analysis work in line with the Innovation Science team and Photonics and Electronics Technology Centre requirements. This will involve applying scientific knowledge, using functional printing, and coating techniques, and analytical equipment to characterise device performance. The work will range from developing early stage, novel technologies, and prototypes to upscaled processes for pre-manufacturing readiness. Responsible for supporting the smooth running of laboratories and actively supporting the Safety, Health, Environment and Quality (SHEQ) objectives.

Key Responsibilities:

- Embrace and role model the desired behaviours to exemplify our Company values, promoting an 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 be responsible for discussing project needs; set up, plan, and execute scientific experiments and report results to agreed timescales.
- To be responsible for agreeing weekly work plans with line manager and project manager(s) and delivering plan to agreed schedule.
- To contribute to the delivery of projects through the delivery of scientific/engineering knowledge.
- To conduct experiments, develop new processes, fabricate a range of devices using functional coating techniques and perform materials characterisation.
- To be responsible for providing clearly documented records of technical data, decisions, methodologies, calculations, and software use in an agreed format.
- Responsible for general laboratory housekeeping to contribute to a safe and healthy workplace.
- Responsible for liaising with the warehouse for collection of deliveries.
- Responsible for the purchasing of chemicals, equipment, and other items as and when required.
- To share professional knowledge with colleagues and be responsible for own continuous professional development.
- Contribute to a culture of continuous capability development within teams in alignment with company strategy and project deliverables.

Direct reports: No direct reports

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Person specification

Education / Qualifications:

Essential:	Desirable:
Studying towards a Degree in Chemistry, Physics, Materials Science, Electronics, or a related subject.	Undertaking an HNC, Foundation Degree or Degree (or equivalent) in a Scientific/Engineering discipline.

Competencies and behaviours	
Leadership (Core)	**Decision Making (Core)**
• 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 owns behaviours and actions to CPI's values, vision, and goals.	• Within area of expertise recognises, identifies, and defines problems. • Generates and evaluates alternatives, draws conclusion, and analyses risk. • Takes timely and correct action using established methods to ensure effective solutions are implemented.
Communication (Core)	**Developing self and others (Core)**
• 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.	• Knows own career aspirations and clearly communicates them to relevant colleagues whilst actively working to achieve goals. • Sets personal development goals and deploys strengths to achieve them. • Takes responsibility for one's own performance and actions and invites and incorporates feedback from a variety of sources. • Regularly reflects on own capabilities to identify development priorities.
Collaboration (Core)	**Delivery (Core)**
• Establishes effective working relationships with other colleagues. • Builds and maintains a network of internal and external contacts.	• Plans, prioritises, and leads own area of work to deliver specified and agreed outcomes (time and standard). • Accurately scopes out length and difficulty of tasks, and repeatedly

• Actively seeks, values, and incorporates different views and ideas to broaden their prospective.	estimates correct amount of time needed for tasks. • Refers to lessons learnt from other projects/ tasks with related scope. • Acts with minimal supervision or direction. • Pays attention to detail and delivers accurate and high-quality outputs.

Knowledge and Experience:

Essential:	Desirable:
Will have demonstrated, laboratory experience in Chemistry, Physics, Materials Science, Electronics, or a related subject. Will be learning to apply own judgement and initiative within standard scientific practices, as well as an understanding of when to seek advice from colleagues. Working knowledge and broad experience of IT packages, particularly Outlook, Word, Excel, and PowerPoint.	Possess knowledge of device fabrication processes such as vacuum coatings and wet-chemistry coatings, and also materials characterisation techniques such as surface profilometry, rheometry, surface energy and FTIR.