Placement Student - Mechanical Engineering



Role Purpose:

To support the design, development, test and manufacture of photonics-enabled products and processes for a wide range of applications, especially in Medical technologies, Healthcare and Life Sciences markets.

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 help provide in-house mechanical design and development support of projects.
- To learn how to gather and develop customer requirements.
- To generate conceptual designs, layouts, and bill of materials.
- To assemble and test prototypes.
- To work as part of a multidisciplinary project team with both engineers and scientists and be responsible for the management of external suppliers.
- To learn how to provide clearly documented records of technical data, decisions, methodologies, calculations, and software use in accordance with ISO/FDA quality standards.
- To support the Procurement and Engineering teams for specification, tendering, factory, and site acceptance tests for new equipment.
- To help prepare and provide reports for clients as required.
- To take ownership in agreeing weekly workplans with line manager, mentor, project manager(s) and other relevant stakeholders, and delivering plan to agreed schedule.

Direct reports: No direct reports

Person Specification

Education / Qualifications:



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Essential:	Desirable:
Educated to A-Level level (or equivalent) in Mathematics and Science (Chemistry, Biology or Physics) or related subject.	Studying for Masters (or equivalent) MEng or MSc.
 Currently studying for Degree level (or equivalent) in: Mechanical Engineering (or related) Manufacturing Engineering (or related) Product or Industrial Design (or related) Biomedical Engineering (or related) 	

Competencies and behaviours	
Leadership (Core)	Decision Making (Core)
 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. 	 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 by working as a team and with and focused outcomes to be delivered.
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, keeping an open mind and embracing new ideas. 	 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. 	 Plans, prioritises and leads own area of work to deliver specified and agreed outcomes (time and standard).



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- Builds and maintains a network of internal and external contacts.
- Actively seeks, values and incorporates different views and ideas to broaden their prospective, embracing differing perspectives and unconventional ideas.
- Accurately scopes out length and difficulty of tasks, and repeatedly 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 by being purposely empowered to make decisions when needed.
- Pays attention to detail and delivers accurate and high quality outputs.

Knowledge and Experience:

Essential:	Desirable:
Has a good working knowledge and practical experience of design, development, and manufacture of mechanical devices. Has an understanding of the product development cycle from research concepts through to production. Has an understanding of key mechanical engineering principles e.g., material selection, assembly techniques and manufacturing processes. Knows techniques for design for manufacturing, assembly, test, and maintenance. Has the ability to source suitable	 Has experience in the following areas: The design, development or manufacture of photonic systems or photonics-enabled products Design, development, or manufacture in a medical device or IVD context Understanding of rapid prototyping techniques (design and operation) Experience with additive manufacturing (3D printing) equipment
components and manufacturers.	
Has experience in 3D CAD software (ideally Solidworks).	