Graduate Data Scientist

Semiconductor devices provide the foundations on which progress in the technology sector is enabled. From Smartphones to Artificial Intelligence, 5G communications to autonomous vehicles, all are made possible through advances in semiconductor processes. Scaling these processes requires sub-nanometer measurement of increasingly complex 3D structures to enable more powerful devices. At **Infinitesima** we have pioneered a revolutionary atomic precision 3D metrology technology which has been qualified by leading companies in the semiconductor industry and we believe is essential for continued progress. To quote Lord Kelvin, *'If you can't measure it, you can't improve it!'*. Come and join our dynamic team to enable the semiconductors for tomorrow's technological developments.

Do you have experience in extracting data through image analysis? If so, we currently have an exciting opportunity for a Data Scientist to join our R&D team.

The prime function of the role is to develop the algorithms to analyse data sets measured by our metrological product to answer our customers' key questions.

Location: Abingdon
Reporting to: Data Science manager

The Opportunity:
There is an opportunity to be central in translating the measurements made by our tool into actionable results for our customers. Join our hi-tech team and developing the advanced algorithms within a prototyped workflow and test to ensure they have the robustness to be handed over to a customer for their independent use.

Key Responsibilities:
- Writing code for the analysis of tool data, bridging the gap between raw data and customer interpretation.
- Ideate, design, prototype, test and communicate software components in response to identified technology/data analysis/market application gaps within realistic and defined timescales.
- Work effectively both individually and within a Development and Engineering team to fully understand how the context of the data impacts the design of appropriate data analysis tools.
- Work with the engineering team to effectively transition modules from R&D to an engineering software team to facilitate rapid incorporation into customer-facing software.

Personal Qualities:
- Able to work independently, quickly acquiring the skills needed for the job Engages with other members of the company to bring the best solutions to the problem.
- Recognises the value that fellow company members bring to enhance own abilities.
- Supports colleagues with their tasks when critical to the company goals.
- Establishes themselves as the knowledge centre in own field.
- Ability to react and proactively take action to solve short-term issues, whilst balancing medium-term targets.

- Focus on the company goal, avoid distraction, making timely decisions to achieve the target.

Education / Qualifications:
- Bachelor's degree or higher in relevant degree.

Professional Skills/ Abilities:
- Essential: Expertise in algorithm development in Python.
- Essential: Experience in image analysis (e.g. segmentation, filtering, model fitting, etc.).
- Preferred: Experience in 3-d data sets (such as SEM/AFM or other).
- Preferred: Experience working with metrology tools in a regulated environment.
- Preferred: Experience of use of Artificial Intelligence/Machine Learning (AI/ML)
- Preferred: Experience with version control and testing.

Benefits:
In addition to a competitive starting salary and a yearly bonus. Infinitesima offers flexible working hours, Hybrid working with up to 50% home working 25 days annual leave, personal pension contributions and EMI Share scheme.