

Data Engineer

Description

Paragraf's patented contamination-free deposition technology delivers game-changing opportunities for the commercialisation of graphene by allowing us to manufacture high-purity 2D graphene sheets at scale.

Paragraf is the first company in the world to mass produce graphene-based electronic devices using standard semiconductor processes. We not only specialise in the manufacture of high-purity graphene but also its seamless integration into ready to use products that can be quickly adopted by our customers and partners to support the advancement of their technologies.

At Paragraf we are committed to materially transforming electronics through the development of high-purity graphene products that will facilitate massive improvements in the performance of technologies across all aspects of life.

Founded as a spin out from Cambridge University in 2017 with the aim of transferring the technology from the academic lab into a commercial entity. Since then, we have grown from one site in Somersham, Cambridgeshire and three employees to a team of over 100 amazing people and an additional production facility in Huntingdon as well as sales teams globally promoting Paragraf.

This role focusses on Paragraf's Data Systems, which support its electronic device production and internal tool development. This is a critical and influential role with understanding of Data Engineering (SQL), Data Architecture, Stored procedures, alongside good coding skills and practices, with Python being key to success along with an open and flexible approach. An opportunity to use your experience and knowledge to influence critical decisions and deliver accordingly – this isn't your 'run of the mill' data role, as a broader engineering hat is required and a willingness to adapt.

Key Responsibilities and Tasks

- Experienced Data engineer who will co-ordinate the future data needs of the company, allowing Paragraf Data Capture to grow organically
- Capable Software developer for our Graphene electronics products and internal software tooling
- Take a proactive approach to CI/CD and Testing, ensuring best practice and longevity is at its core and provide professional documentation and frameworks.
- Build solutions with security, re-usability, resilience and flexibility in mind, to influence the software and data direction of the company.
- Ability to build Data Systems to store, consolidate and retrieve data for consumption by internal users
- Work collaboratively to define a Data and Software roadmap and report/own those deliverables
- Deliver tactical quick wins and show adaptability and flexibility with day to day activity.
- Act as a mentor and role model for more junior staff

Hiring organization

Candidate-1st

Employment Type

Full-time

Beginning of employment

asap

Job Location

Somersham, England, United Kingdom

Working Hours

40

Base Salary

euro GBP 72K - 124K *

Date posted

June 5, 2024

- Comfortable working autonomously on fast-paced, high output projects
- Capture Data/Software requirements and manage those requirements effectively.
- Be enthusiastic about challenges, potentially beyond the initial scope of the role, and motivated by a new opportunities

Requirements

Education and Qualifications:

- Degree educated in computer/data science, electronics, or a similar field.

Experience:

- Flexibility is key to support Data Engineer primarily, with a solid coding background to influence the delivery of that data
- Tech Stack: Primarily: SQL (SSMS, T-SQL, Stored procedures), Python, Secondary: C, C++, C#,
- User Interfaces: simple effective UI platforms which are functional
- Data Engineering: SQL querying and Table structures/schemas for extendibility and readability
- Software testing frameworks and designing automated software test systems.
- Strong documentation and repository management practices
- Strong communication skills with the ability to explain comprehensive and complex software to all levels of expertise.
- Software tools: Source Control (Git), Change management, Agile Tools (such as JIRA)
- Demonstrated ability to work autonomously and as part of a team
- At least 5 years in Data Engineering (SQL), with good Software Development skills and best practice, preferably in Product (Equipment) Development
- Ideally experience in test, instrumentation equipment development, data acquisition and/or Production systems (e.g. MES/ERPs).
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Communication:

- Ability to work flexibly and digest requirements, while quickly delivering software to suit needs, from PoC's to hardened and resilient production systems
- Ability to communicate at all levels with both internal and external contacts
- Ability to present information clearly and appropriately for the audience
- Ability to develop system which communicate information efficiently

Additional factors:

- Respect and adherence to confidentiality and critical matters
- Responsible for ensuring a safe and healthy work environment by complying with company policies and processes and all relevant regulations including the use of PPE, as appropriate to the level and scope of the role. This includes participation in health and safety training and reporting of any potential hazards or breaches of safety protocols in the appropriate manner.
- Willing to travel both domestically and abroad
- UK Driving licence

Benefits

At Paragraf we are constantly looking for new ways to support and reward our team. This is our current list of benefits, they are subject to change and review:

- Group Personal Pension Plan- Employer contribution 5%, Employee contribution minimum 4%
- Private health insurance on completion of probation
- Share Option scheme
- Death in service of 3 times [salary](#) and income protection on completion of probation
- 25 days holiday, plus bank holidays, and the chance to 'purchase' up to 5 additional days each year
- Personal and Professional Development Plans and support
- Employee Assistance Programme
- Cycle to work scheme
- Electric Vehicle Lease Scheme
- Payroll Giving scheme

How the process will look like

Your teammates will gather all requirements within our organization. Then, once priority has been discussed, you will decide as a team on the best solutions and architecture to meet these needs. In continuous increments and continuous communication between the team and stakeholders, you're part of making data play an even more important (and understood) part withing Brand New Day.

Job Benefits

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