JOB DESCRIPTION

SENIOR DATA ENGINEER

Location: London Office/Hybrid Working
Reports to: Head of Data Science
Grade: 5

What we do
We support pharmacists in their education and development, promote pharmacy in the media and government, and lead the way in medicines information across Great Britain and around the world. Our mission is to put pharmacy at the forefront of healthcare. Our **vision** is to become the world leader in the safe and effective use of medicines.

Our values
At the core of our culture, our values Focus, Agility, Quality, Collaboration and Respect describe the way we work to achieve our organisational goals. We believe people don't need to be fixed to their desk to achieve great things, so we offer flexibility to our people in how they do their work wherever possible, to bring out the best in everyone and provide an inclusive working environment.

Leadership in pharmacy
We define best practice for pharmacy professionals and help them achieve this through professional development, career support and training. We are here to support professionals with the challenges of pharmacy practice, and advocate for the role of pharmacy by setting professional and ethical standards, producing policy papers, and responding to consultations with government and industry.

Publishing
We're the world leaders in evidence-based pharmaceutical publications and guidance. Pharmacists and other healthcare professionals trust us to provide expert analysis, educational support, webinars, and news that informs, supports, and enhances their practice. We independently source, evaluate, and communicate and make practical medicines knowledge accessible worldwide.

Central Services
We support the organisation to achieve its goals by providing people, technology, facilities, and financial services.

Our governance and leadership
Our Assembly provides overall governance and strategic direction for RPS. Our three National Pharmacy Boards provide advocacy, support and strategic leadership for pharmacy practice and developments within England, Scotland, and Wales. The Pharmaceutical Press (PhP) Board advises the Assembly on the direction and approach of Publishing, while our Executive Team look after every aspect of our operations.

ROYAL PHARMACEUTICAL SOCIETY

JOB PURPOSE

This is a new role for RPS, part of the Technology team. The Senior Data Engineer will design, build, maintain, and troubleshoot the systems and infrastructure that enables PhP to collect, store, process, and analyse large amounts of data. The Senior Data Engineer is responsible for developing and maintaining the data pipelines that move data from various sources into a centralised data warehouse or data lake, where it can be used by data analysts, data scientists, and other stakeholders within PhP.

MAIN ACCOUNTABILITIES

- Guiding our internal customers towards a successful technical solution to their data challenges.

- Communicating with technical and non-technical stakeholders.

- Developing, testing, and monitoring distributed data processing pipelines.

- Producing high quality, reproducible data models in a scalable and maintainable way.

- Collaborating with other data roles such as Software Engineers and Data Scientists.

- Ensuring solutions meet the requirements of data producers and consumers.

- Delivering solutions iteratively to produce value from data early and frequently.

- Keeping technically sharp, being open to learning new concepts and technologies.

This list is a summary of the main accountabilities of this role and is not exhaustive. The role holder may be required to undertake other reasonable duties from time to time.

RPS is committed to supporting the worldwide decarbonisation efforts, and our Technology Directorate's role is to facilitate and drive efforts to minimise RPS's carbon impact through all of our technology services and initiatives.

SUCCESS MEASURES

- Being a leader in data engineering at the RPS, showcasing best practice and coaching other members of PhP.

- Having a clear grasp of the business needs with an ability to establish and maintain a high-level of trust and confidence across the organisation.

- Measurable improvements to the volume and quality of insights generated and actioned.

- Clear communication and reporting of risk, change and impact to stakeholders.

- A core member of the PhP technology team.

ROYAL PHARMACEUTICAL SOCIETY

KNOWLEDGE & SKILLS FOR THIS JOB

We encourage our data engineers to be open to learn new technology on a project-by-project basis. We are looking for data engineers who have some of the following skills and experience, such as:

- Advanced programming skills using Python.

- Building data pipelines, complex ETL, large data migration projects.

- AWS (Redshift, Lambda, DynamoDB, S3 etc.).

- Strong communication skills, working with everyone from senior stakeholders / C suite to graduates.

- Understanding of common approaches to data analysis, machine learning and data visualisation.

- Understanding different approaches to data architectures (e.g., Data Lake, Data Mesh, Data Warehouse, streaming, batch processing).

- Hands-on experience with relational and NoSQL databases.

- Familiarity with big data concepts for storing and processing large data volumes.

- Practical knowledge of handling varied types of data (text, tabular, graph, time-series, geospatial, image, etc.).

- Practical knowledge of containerisation and public and private Cloud environments.

- Knowledge of information security and data governance.

- Experience delivering projects to deadlines, with an emphasis on quality, ideally in client facing contexts.

- Leadership (this is a senior role where your leadership and mentorship skills are important to the success of the wider team).