

**Job Description**

<b>Job Title</b>	Data Scientist
<b>Department</b>	Digital & Data
<b>Location</b>	London, Marylebone
<b>Contract type</b>	Full time, Permanent

**About Fortius**

The Fortius Group is the UK's leading private orthopaedic and sports injury group. Founded in London by a group of leading Orthopaedic Surgeons and Radiologists, with a shared vision of building a worldwide centre of excellence in musculoskeletal care. Their vision was to create a clinic that would bring together the country's leading experts in orthopaedics and sports injury treatment, with a shared commitment to advancing the science of medicine and a better patient experience.

That group of experts now includes over 80 leading specialists, with two outpatient and diagnostic clinics, a surgical centre and an innovative inpatient unit for joint replacement surgery, in partnership with Bupa.

**Overall Purpose**

An excellent opportunity for a data science professional to work with a leading company with an international reputation and at the forefront of clinical care in MSK and Orthopaedics.

A fast-growing technology and data science company specialising in MSK, orthopaedics and sports medicine is looking for data scientists. We are looking for candidates with experience and potential. You will be working closely with a multi-disciplinary

**Principal Accountabilities**

Your role is to:

- Be the analytical powerhouse behind our operations and create the required models and analysis to drive initiatives
- Utilise the technology platform to mine, analyse and report information from multiple data sources and variable formats
- Examine the effectiveness of clinical practice for a large number of patients across all sub-specialties
- Identifying outcomes for different cohorts of patients through the use of algorithms and other modelling, visualisation and AI techniques

- Providing a data analytics service in support of research studies. Build a gold-standard suite of reports and dashboards
- Providing clinician level data in support of evidence based medicine, appraisals and revalidation
- Providing evidence to support clinical practice and value based healthcare initiatives and programmes.
- Helping the organisation to change the way data is viewed and considered and how it could be more effectively used at an individual and company level
- Contribute to the further evolution of the data infrastructure and analytics platform

We collect a wide range of data throughout the patient pathway - PROMs and other patient generated information and we are planning to use sensor data to identify improvement, to detect medical conditions and to classify stages of recovery in support of a push into predictive analytics.

### Requirements

- Master's or PhD degree in Computer Science, Machine Learning, Statistics or similar quantitative field
- Minimum of 2 years but ideally 4 years+ of working experience in data science projects
- Knowledge of healthcare is preferable
- Experience with applying statistical modelling, machine learning and data mining
- Experience or good knowledge of deep learning methods, models and frameworks
- Familiarity with data visualisation tools
- Background in statistics preferable but not essential
- Good working knowledge of Python / PyTorch
- GQL & JSON skills a bonus

### Equality & Diversity

All Fortius employees must have respect for every individual, treating everyone with dignity, courtesy, fairness and consideration, and welcoming and accepting differences between people. It is the responsibility of every employee to work towards the elimination of all discrimination and prejudice.

### Health & Safety

All Fortius employees have a statutory duty of care for their own personal safety and that of others who may be affected by their acts or omissions. Employees are required to co-operate with management to enable Fortius to meet its own legal duties.

### Infection Control

It is the responsibility of all staff to recognise their role in maintaining a safe environment for patients, visitors and staff to minimise the risk of avoidable Healthcare Associated Infection. Employees are responsible for ensuring that they are fully aware of the Fortius Infection Prevention and Control policies.

### Quality Governance

All Fortius employees must adhere to Fortius policies and procedures and seek advice on these when in doubt as to their scope and applicability.

Employees are specifically reminded that they must respect the confidentiality of all information they have access to during their employment including personal data.

*This job description is intended as a guide to the general scope of duties and is not intended to be definitive or restrictive. It is expected that some of the duties will change over time and this description will be subject to review.*

### **Values**

All Fortius staff are expected to display and aspire to the Fortius Values.

### **Making it Happen**

Be proactive in reviewing the current service, making recommendations and implementing changes to continuously improve the patient journey.

### **Stronger Together**

Work in partnership with the multi –disciplinary team to challenge and influence clinical and managerial decision making.

### **Personalised Service**

Deliver a patient centred service, provide patients with information regarding their care and treatment.