JOB DESCRIPTION

JOB TITLE:	Data Scientist
JOB HOLDER:	Vacant
REPORTS TO:	Arghya Barman, Senior Data Scientist
LOCATION:	Process Design & Data Science, Process Development, Billingham

JOB PURPOSE

The basic purpose of the role is to provide Data Science support to multiple projects at various phases of biopharmaceutical drug development and commercial manufacturing at all FDB sites. The job holder collaborates with scientists and engineers across the business to plan and design meaningful experimental studies, analyse and communicate results from these and other complex and existing studies or data and engage in effective decision-making

The Data Scientist will be working with other data scientists, statisticians and experimental scientists on developing approaches and novel algorithms to answer complex questions.

Candidates will have many opportunities to study a variety of computational challenges, where solutions typically require the combination of multiple technologies, including machine learning and as such candidates must have good programming and data analysis skills.

DIMENSIONS

NO. OF STAFF REPORTING TO INDIVIDUAL:	0 (in first instance)
NUMBER OF PROJECTS (PER ANNUM):	6 - 12
FORWARD WORK PLAN:	6 - 12 months

KEY TECHNIQUES	
- Participate in cross site, complex Data Science projects in Biopharmaceutical Development and Manufacturing - Provision of in-depth technical and business knowledge to ensure efficient design, programming and implementation in the area of data science. - Good understanding of key machine learning concepts and approaches. - Acknowledgement and application of computational / statistical methods to analyse small and large scale data. - Application of machine learning algorithms for analysis of data generated from various studies. - Expertise in data mining, information retrieval.	

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- Familiarity solving business challenges with data using scripting languages (such as Python or R) and SQL
- Innovate, design and develop new data science based applications to support our clients and internal needs
- Implement data science projects, apply and code algorithms, manage data, present results
- Interact with clients in communicating Data Science concepts, projects and data
- Perform traditional statistical analyses and data management tasks while working closely with other team members
- Support less experienced staff in data science topics
- Collaborate with other FDBK practice areas on shared projects and in support of their data analytical needs

PRINCIPAL ACCOUNTABILITIES

- To become aware of the projects / types of work carried out by Fujifilm and the rationale for the techniques used and moving forward to indicate where data science / statistical tools, techniques and systems can be implemented.
- To accommodate business deadlines the role holder will have to develop an effective strategy for dealing with multiple projects and changing priorities.
- Prepare reports & presentations where applicable both for internal use senior management use and for provision to customers.
- Develop, in consultation with the Training Department suitable training on data science approaches.
- To be compliant with the PD Quality system and where necessary the GMP system.
- To work safely and in accordance with Fujifilm SHE polices and keep up to date with any SHE issues.
- Structuring of problem domains and definition of data, process, functional, and IT architectural requirements
- Expertise in data mining, information retrieval and machine learning algorithms required such as clustering algorithms, logistic regression, SVM classifier, etc.
- Good understanding of computer science fundamentals and algorithms
- Hands on experience with data mining, text mining, and advanced concepts / techniques for analysis / utilization / visualisation of large complex data sets
- Good background in application of statistical/analytics tools such as R, Regular expression, or Python and other tools for big data technologies for machine learning based problems
- Experience in data visualization
- Experience in SQL programming languages , Data and database management

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SPECIAL FEATURES

- Job holder will be working alongside cross site project teams and will have regular contact with Technical Projects Leaders and other Senior Scientists and Senior Management within Fujifilm both in the UK and the US.

Competency	Demonstrated Behaviours
Conceptual Thinking	• Relates different pieces of information and recognises trends. • Identifies the key factor(s) in a complex problem. • Associates seemingly unrelated information in order to analyse a situation.
Positive Self-image	• Is stimulated by challenging goals. • Is confident in his or her ability to overcome obstacles. • Is confident in dealing and working with others. • Displays confidence while taking on new responsibilities. • Deals positively with situations that could be seen as stressful or threatening.
Self Control	• Remains calm when personally attacked. • Keeps things in perspective despite fatigue or frustration. • Maintains effectiveness and commitment in the face of disappointment. • Is objective under pressure and in difficult or stressful circumstances. • Works effectively under tight deadlines. • Maintains a business-like approach when unduly annoyed, disturbed, or disrupted by others. • Maintains objectivity when interpreting information and defining problems.
Adaptability	• Adjusts strategies to changes in the environment • Adopts means of communication and interaction that suit different cultures • Deals effectively with people from a variety of backgrounds • Decides courses of action in ways that take account of different environments and cultures
Strategic Influencing	• Lobbies key people to get agreement. • Identifies the different needs of key people and adjusts strategies to influence them. • Switches tactics in changing situations in order to convince others. • Considers the merits of different influencing approaches and acts on the best perceived approach.
Strategic Thinking	• Prepares and reviews contingency plans for problems and situations that might occur. • Considers whether short-term goals will meet long-term objectives.

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Signed / Dated (Individual)	
Signed / Dated (Line Manager)	

Special Features

Lead technical discussions with knowledgeable customers during customer visits

As an expert in a defined area the job-holder will frequently prepare and give presentations at external scientific meetings and conferences. This is a key route by which FDB maintains customer awareness of its competencies.

Close interaction with the Senior Technical Project Leaders and Technical Project Leaders who are accountable for technical delivery of a programme thus the job holder has to work in a matrix management structure. May also work closely with programme managers and be accountable for delivery of milestones.

Contributes to expert groups and contributes to recommendations to projects and experimental protocols.

Contributes to the initiation and management of scientific collaborations in support of new or exploratory science and technology strategies.