Data Analyst – Intelligent Manufacturing, STFC

Warrington, UK

The Science and Technology Facilities Council (STFC) is one of Europe’s largest research organisations. We’re trusted to support, enable and undertake pioneering projects in an amazing diversity of fields.

STFC’s Hartree Centre combines the UK’s premier data-centric computing environment with the world’s most talented researchers, engineers and software developers. With these tools and talent, combined with multi-million pound government backing, we provide an outcome-based collaborative R&D service that enables UK industry and academia to develop better products, services and processes.

About The Role

We now have an opportunity for an experienced Data Analyst to join a new team of data scientists within the Hartree Centre during an exciting phase of growth.

Sensory input and coordinated reactions are normal operating conditions for living creatures, not so common in the world of high value, complex engineering systems.

Combining data analytics, modelling and Internet of Things (IoT) sensor technologies, you will join the Hartree Centre cognitive computing team heading up the development of intelligent manufacturing systems. Your software, data modelling and analysis skills will inform the design of new sensor systems and will aid production engineers and managers to drive system performance.

You will work on a variety of high value manufacturing and engineering projects in the general area of data analysis, machine learning and natural language processing. Initial work will take forward opportunities in intelligent manufacturing across sectors including Aerospace, FMCG, Oil and Gas, Automotive and Transport Systems. Successful candidates will have input into their choice of project, but the common thread is the application of innovative computing solutions to real industry problems.

Further responsibilities will include:

- Defining work plans for specific projects, in collaboration with business development personnel and client subject matter experts
- Identifying appropriate technologies and designing appropriate technology solutions.
- Learning and applying data centric, analytics and cognitive computing technologies.
- Reviewing validation of conclusions, and presenting results to customers.
- Visiting commercial and academic partners.

Successful applicants will be appointed at either Band E or Band F of STFC’s staffing hierarchy, depending on the strength of your skills, experience and qualifications. Band F appointment will only be considered for outstanding candidates with a track record of successful research in a highly relevant subject.

About You
Suitable candidates will hold a Postgraduate Degree in a relevant STEM subject. You will be an experienced data scientist / statistician with experience of applications in engineering and manufacturing, and an interest in sensory systems, cognitive computing and complex engineering systems.
You will also demonstrate knowledge or experience in the following areas:

- Compiled and scripting languages.
- Big data and software performance issues.
- Participating in projects across organisations with different partners.
- Software engineering.
- Use of clusters or supercomputers.
- Data management.
- Sensor technologies.
- Hardware infrastructure.

**Experience in one or more of the following areas is beneficial but not essential:**

- Natural language processing applications
- Artificial intelligence
- Machine learning
- Process optimisation
- Supply chain optimisation

Excellent communication and interpersonal skills are required to collaborate effectively with people from diverse scientific backgrounds, along with effective presentational skills to deliver to technical and non-technical audiences.