

## Data Scientist

Are you a data specialist looking to create positive impact, both at work and through your work?

If you are excited by the opportunity to develop functionality which improves the operation of UK rail networks and has global potential, read on.

Esoterix Systems is a specialist intelligent mobility technology provider. We harness technical possibilities for solutions to some of the world's most pressing transport problems, with an impressive track record of in-the-field trials and partnerships with major industry players.

This is an exciting time to be joining us. We have signed a long-term contract with a major rail operator to supply our machine-learning loading predictions to rail. These will help build confidence to travel by train, the backbone of our future carbon-neutral transport network. The next phase includes refining these predictions to update in response to network disruption. It is a challenging but fun(!) problem.

### To match the demands of this role, we are looking for:

- **Experience** - You have a solid academic background in maths, statistics or engineering with proven research skills. Knowledge of artificial intelligence, machine learning and time-series solutions is preferable although, first and foremost, we are looking for a good fit for our small team.
- **Leadership** - You will be our dedicated Data Scientist. We will look you to research (where necessary), advise on and implement the most suitable methodologies and technologies.
- **Flexibility** - You have experience of turning complex data into usable information for business decisions and for integration into software services. An ability to work with a technical team to design and implement software algorithms is critical.
- **Curiosity** - You like to stay abreast of the latest developments in your field and skill up where necessary. You are prepared to question other people's thinking and, also, to answer questions about your own.
- **Creativity** - You are able to approach problems from different directions to understand the relative benefits of alternative options.

### Required skills & experience:

- A strong degree in a relevant subject, preferably post-grad statistical knowledge
- 3+ years of experience in advanced data analysis
- Experience of developing software for data analysis, e.g. using Python (preferably) or R
- Experience of implementing machine learning
- Ability to perform categorical and stochastic analysis on unformatted data
- Interest in extracting new meaning from large data sets
- Knowledge of the latest data mining tools & techniques

### Better still if you have experience with:

- Working in start-ups
- Behaviour profiling and behaviour change detection
- Novel database structures and their potential benefits, e.g. graph

**Benefits:** This is a permanent role. Esoterix offer a competitive salary, a creative environment, flexible working, professional development support - and we're also still just about small enough to offer share options.

**Get in touch:** If you can deliver on what's needed now with an eye on what comes next, we want to hear from you.

Send an email explaining why you think you might be right for the position with your CV to [liz.davidson@esoterix.co.uk](mailto:liz.davidson@esoterix.co.uk)

No agencies!

**Indicative salary:** £40,000 - £65,000 per annum + options depending on experience

