

- [Tweet](#)
- [Facebook](#)
- [LinkedIn](#)
- [Google+](#)

Position: Lead Safety Data Scientist

Location: Cambridge, UK; Gothenburg, Sweden; or Boston, USA

Salary: Competitive & Excellent Benefits Package

At AstraZeneca we turn ideas into life changing medicines. Working here means being entrepreneurial, thinking big and working together to make the impossible a reality. We're inspired by the things that seem impossible. Here, we see the impact of our collective ideas and expertise, and the power of science to deliver them.

We make the most of your skills and passion by actively supporting you in order to ensure you achieve your potential. You'll join an energized team and work on projects that offer a wide range of on-going learning and career development opportunities.

At the forefront of scientific innovation, AZ is embracing the value of data analytics, big data and data science, as key levers of insight and productivity. We are currently seeking a Lead Safety Data Scientist within the Predictive Compound ADME and Safety Group, a division of our Drug Safety and Metabolism (DSM) unit at AstraZeneca.

In this role you'll have the opportunity to build an industry leading capability, engaging with and leading a team of data scientists to create and implement strategies for the capture, integration and exploitation of large-scale data sets across the preclinical and clinical safety domains. You will represent the group both internally and externally, continuing to build influence through – both through effective delivery of projects – as well as personal networking.

Through the use of the latest advances in data science, analytics and artificial intelligence, you will aid in the identification of novel drug candidates with the best risk profiles ultimately leading to safer medicines for our patients. The data science team will focus on taking a 'Systems Biology' approach to 'Big Data' to research and further our understanding of preclinical to clinical translation as well as the chemical and biological mechanisms of adverse events connecting into initiatives such as our "2 million genomes" previously announced.

You'll use your computational skills for hypothesis generation, providing decision support to projects and to explain complex relationships within large scale data sets. Your ability to bridge the understanding of models and modelling across diverse disciplines is key. Join AZ for an exciting, challenging and rewarding career in data science. Join us on the journey to better health outcomes for patients, driven by data intensive science and decision making.

Key Responsibilities:

- Drive the profile and strategy and lead a team of data scientists for the analysis and mining of large data sets (Big Data)
- Work collaboratively with other data analytics groups and key stakeholders across AstraZeneca
- Provide state-of-the-art data management and computational services to allow effective use of models by the business
- Drive the research, development and application of predictive models and tools, including artificial intelligence and Deep Learning approaches, appropriate for the different phases of drug discovery and development
- Contribute to departmental strategies for data management and data structures to better enable modelling and informatics
- Work closely with DSM scientists providing computational support, technical expertise and input to influence scientific, project and departmental decisions.
- Train and mentor iMED scientists in the use of models to aid projects progression and decision making

Qualifications, Skills and Experience

Required:

- MSc or PhD in a life science, computational biology, data science, informatics, statistics or other relevant field, with track record of impactful publications
- The ability to act as a figurehead to drive the abilities and profile of the team within AstraZeneca – as well as its external profile.
- Track record of leading impactful delivery in data science projects and successful manager of people in a life science organization

- Experience with and knowledge of advanced machine learning and data mining technologies with applications in one of the following areas: predictive and statistical modeling, machine learning and text mining (e.g. R, scikit learn, Mahout, openCV etc)
- Demonstrated computational skills in a rapid prototyping platform (Python/Julia/Matlab etc)
- Experience of end-to-end software tool/solution development and lifecycle management
- Overview knowledge of computer hardware & software, including: databases, programming & scripting languages, hardware & software architecture, OTS tools (e.g. for data analysis & visualisation)

Desirable:

- Knowledge of software development in one or more high level language (e.g. C++)
- Experience with or knowledge of computational biology and bioinformatics

AstraZeneca is an equal opportunity employer. AstraZeneca will consider all qualified applicants for employment without discrimination on grounds of disability, sex or sexual orientation, pregnancy or maternity leave status, race or national or ethnic origin, age, religion or belief, gender identity or re-assignment, marital or civil partnership status, protected veteran status (if applicable) or any other characteristic protected by law.

Don't forget to mention Naturejobs when applying.

- [Apply](#)

Job details

Employer

[AstraZeneca](#)

Location

- Cambridge, United Kingdom

Posted

18 days ago

Expires

February 05, 2018

Job type

[Senior Scientist](#)

Salary

Unspecified

Qualifications

[Postgraduate - Doctorate/PhD](#)

Employment type

[Permanent](#)

Job hours

[Full-time](#)

[Top](#)

- [Naturejobs.com](#)
- ISSN : 1476-4687

- [About us](#)
- [Contact us](#)
- [RSS web feeds](#)
- [Help](#)

- [Privacy policy](#)
- [Use of cookies](#)
- [Legal notice](#)
- [Accessibility statement](#)
- [Terms](#)