

Apply today:

Job Opportunity for a Data Scientist in Life Sciences

Are you a driven person and enthusiastic to apply data science in life science research to assess the toxicological and medicinal effects of substances on an organism? Do you want to have the opportunity to be part of a highly motivated team in a growing start-up? We work with global biotech, petrochemical, agricultural companies, and international research institutes. Your work will impact how companies bring products to the market and in the long run we aim to impact European Regulation on how products are tested for safety.

As you will read below we have a lot of wishes, but we do not expect you to be a master of all. Are you a starter and do you feel passionate about the function description? Reach out and we can talk, there are training opportunities.

Come strengthen our team!

The company Vivaltes was established in 2016, our mission is to provide an alternative for traditional animal testing, so that toxicological and medicinal studies can be performed in a humane manner with reliable results. Our innovations provide new information to companies not available with standard technologies. We do this by combining bioinformatics and data science with laboratory work and are partner in several large international projects. Our activities include:

- **Data science:** one of our projects is to develop an *in silico* prediction model for developmental and reproductive toxicity (<https://nc3rs.org.uk/crackit/news/1-million-awarded-silico-assessment-developmental-and-reproductive-toxicity>).
- **Data generation:** we perform laboratory tests to generate new data, for example to replace traditional animal testing for the toxicity assessment of petrochemical products (<https://www.kansenvoorwest2.nl/en/projecten/3r-toxflow/>).
- **Connection with stakeholders:** we are co-organizers of a Novel Foods Event to discuss with regulators and stakeholders the requirements for market acceptance of novel foods, such as foods with health benefiting properties.

You will be contributing to the data analysis and product development for our projects at our office at the Utrecht Science Park.

Your Responsibilities

You will work with our interdisciplinary team of chemists, biologists, and data scientists to leverage chemical, biological, and medical datasets to understand and predict toxic and medicinal activities of complex substances. We work together with academic partners and collaborate with other companies in the development of our products.

Are you a highly motivated bioinformatics/ computational biologist? Join our team to help drive translational projects forward towards market applications by performing analysis and interpretation of multidimensional datasets (e.g. compound, pathway, and clinical phenotype).

You will participate in the development of data pipelines, plan and conduct analyses, interpret results, design and implement data visualizations. The ideal candidate should have the ability to work independently as a hub in the team.

Your profile

Required

- Degree in data science-related disciplines or biology-related disciplines (e.g. computational biology, bioinformatics, computer science, biostatistics, mathematics, medical biology, molecular biology, or biochemistry degree)
- Minimum 2 years of hands-on data science experience (training or professional)
- Understanding of medical biology and an ability to contemplate the biological implications of results from multi-omic datasets
- Strong programming skills (e.g. R and Python/Java), with knowledge of the appropriate tools and libraries for working with biological data, including best software development practices (e.g. design, testing, documentation, code review)
- Experience with data visualization tools (e.g. Shiny)
- Excellent presentation skills and written/verbal communication skills
- Ability to multi-task and prioritize tasks in a deadline-driven environment
- Intellectually curious with innovative and creative problem-solving skills
- Motivated, self-starting, detailed-oriented, organized
- Ability to learn new technologies at a fast pace
- Ability to lead data analysis activities independently and with feedback from the group

Preferred

- Familiarity with biomedical ontologies and semantic web
- Familiarity with network pharmacology
- Familiarity with dimensionality reduction, regression models, machine learning, and/or cloud infrastructure for scalable scientific computing
- Experience with graph databases such as Neo4J
- Experience in pathway and network analysis
- Familiarity with pathway and network databases and analysis algorithms
- Knowledge of SQL, JSON, and XML
- Knowledge of statistics and machine learning algorithms
- Programming in UNIX/LINUX environment

Employment conditions

We offer an initial temporary contract for 12 months. The competitive salary is dependent on education and experience.

Interested?

Send your CV and motivation letter to Monique van der Voet (m.vandervoet@vivaltes.com). For further information on Vivaltes please visit <https://www.vivaltes.com>.