Bioinformatician

Opening date: 07/07/2017   **Closing Date:** 07/08/2017   **Employer:** Sistemic Ltd

Job type: Full time, permanent   **Location:** Glasgow, UK

Salary: Competitive salary and stock options available

Job summary

We are an award-winning, ambitious company, which aims to be a global leader in the development of novel microRNA-based problem-solving products for the cell therapy and bioprocessing markets. To learn more about Sistemic Ltd please visit our website at www.sistemic.co.uk. We are looking for a Bioinformatician to play a key role in the continued development of our microRNA-based product portfolio. The appointee will be responsible for our Bioinformatics analysis output for both client contract fulfilment and internal R&D and have a major input into the development of Sistemic's Bioinformatics capabilities. The role will include study design and analysis of high-dimensional datasets from both a statistical and contextual/functional standpoint to enhance knowledge around microRNA and other 'omics'datasets. In addition, the appointee will have opportunities to develop their skills in project management, working with clients and colleagues throughout the process. This appointment would suit a newly qualified MSc/PhD graduate beginning a career in the biotech industry. Interviews may be conducted before the closing date.

Opportunities for career development and training

This position offers further opportunities for career and personal development. The person appointed will gain experience across many elements of client projects as well as day-to-day running of a small Biotechnology company. Training will be provided, where necessary, in new techniques and methods required to obtain, organise, analyse and interpret datasets. This position offers an opportunity to work as part of a multidisciplinary team and gain experience in many varied aspects of working in a developing company.

Person specification

The successful applicant will be highly motivated, organised and diligent in their approach to work, who is excited about applying computational tools to large-scale biological datasets. They will be a biologist with training in applying statistical tools to biological data. The individual in this role will be able to multitask and prioritise projects, and demonstrate effective planning skills. Excellent record keeping, attention to detail and enthusiasm for the subject are also essential skills as well as good communication skills, and the ability to work independently, as well as part of a team.

Job Description

Key outputs and deliverables:

- Statistical study design and statistical and functional/contextual analysis of microarray and other high-dimensional datasets to inform, assess and predict stem cell differentiation, cell quality control, and cell performance, utilising the company's proprietary technologies
- Maintenance and development of Sistemic's internal databases and informatics tools
- Supporting the product development programmes by providing novel analysis methods and packages to enhance Sistemic's products and processes

Opportunities for career development and training:

- We are a rapidly expanding company and the successful applicant will have the opportunity to gain experience in the fields of molecular biology, stem cell biology and drug development
- Opportunities for personal development and training will be made available for suitable applicants

Skills & Experience

All applicants are required to have the following:

- A PhD or equivalent experience in a relevant subject (eg Biological Science, Bioinformatics) with training in the application of bioinformatics in research
- Experience of programming in the R/Bioconductor environment in the context of large scale biological data analysis
- Experience of analysing transcriptomic data sets from microarray and qPCR platforms using statistical methods (e.g. T-tests, correlation, machine learning/classification, data visualisation)
- Experience with the Linux operating system
- Familiarity with methods and software for functional/contextual analysis, including pathway analysis and gene set enrichment
- Knowledge of molecular biology and functional genomics
- Demonstrated ability to manage time and experience of prioritising project workload
- Strong written and verbal communication skills
- Demonstrated ability to work within a multidisciplinary team environment

Although not essential it would be desirable if applicants have some of the following:

- Knowledge of relational databases and MySQL
- Experience with NGS (RNA-Seq)
- Experience with the Latex typesetting system
- Experience with the LAMP stack, JavaScript, JQuery and D3
- Knowledge of stem cell biology and regenerative medicine

- Experience of biomarker research and discovery studies
- Work experience in corporate/industrial environment

Application

To apply for the role, please send a CV and covering letter specifying how you meet the requirements to Michael McColgan: michael.mccolgan@sistemic.co.uk