JOB DESCRIPTION

Postdoctoral Scientist in Bioinformatics

We are recruiting a Postdoctoral Scientist in Bioinformatics to assist us in analyzing data generated from a large-scale genomics study on breast cancers. In this study, we are using leading edge technologies in laboratory and computational genomics in order to construct a molecular map of Asian breast cancers. This includes the use of statistical and machine learning models to understand what makes Asian breast cancers unique, and employing cloud technology to maximize the efficiency of our data analysis pipelines. Ultimately, the outcome from this study will help clinicians and scientists in the future to better manage breast cancer in Asia.

This study is the largest genomics study of Asian breast tumours worldwide, and is being conducted in close collaboration with a prestigious breast cancer research group from Cambridge University. The study is backed by several prestigious public and private funding sources.

Responsibilities

This position requires you to perform established computational procedures in bioinformatics, as well as design and test new bioinformatics pipelines as necessary:

1) To perform primary processing and data cleaning of genomics data
2) To load data into established genomics pipeline such as GATK and RSEM according to study specifications
3) To participate in the design and execution of bioinformatics analyses in order to answer novel research questions, both for the breast cancer research team as well as other research groups
4) To participate in the analysis and design of component software pipeline features, if required
5) To maintain and refactor code with proper documentation
6) To communicate project or test results effectively
7) To resolve problems and to work towards timely and high-quality project completion
8) To assists internal stakeholders to meet external and internal milestones, and to be responsible for drafting and submitting necessary reports

Qualifications

1) PhD level qualification in a quantitative discipline. Relevant fields include biology, bioinformatics, statistics, computer science, or mathematics.

2) Experience with programming and/or the use of bioinformatics tools
3) Proficiency with the command-line interface of Linux operating systems
4) Experience with Amazon Web Services, Google Cloud Platform, or other Cloud infrastructure technologies will be an advantage
5) Driven by a strong sense of making an impact, with problem solving skills, including conflict resolution skills
6) Ability to prioritise and work to deadlines
7) Adopts a pro-active attitude to work and assumes full responsibilities within the role
8) Ability to work in a team
9) Ability to work creatively and analytically in a problem-solving work environment
10) Passion for CRM's mission.