**Job Advertisement - Research Scientist**

**About Us**

Genomics Medicine Ireland is a recently incorporated company Irish life sciences company leading a large-scale research programme on the human genome to examine the relationship between genetics, health and disease. Our mission is to become a global Centre of Excellence for omics and use our scientific strength to understand diseases of genetic origin through analysis and interpretation of the human genome, empowered with rich medical and lifestyle data.

**Job purpose**

Genomics Medicine Ireland (GMI) is currently building its Research and Analysis team. This Team will analyse omic data from multiple disease and wellness cohorts including Multiple Sclerosis, Inflammatory Bowel Disease, Alzheimer’s Disease, Cancers and Rare Diseases.

We are seeking ambitious, highly-skilled, dedicated and reliable individuals who will be responsible for generating and interrogating these genomic datasets to identify novel components of disease. We are looking to build a team of individuals with a range of skills and backgrounds who will work together to help better understand the genomic basis of disease and wellness.

This position does not involve any laboratory work and involves a high degree of data analysis.

**Duties and responsibilities**

* To work efficiently as a Research Team Member, with different people, with different roles, across a broad range of functions.
* To perform a variety of genomic in-silico analysis.
* To analyse, integrate and interpret biological and phenotypic data.
* To plan, co-ordinate and prioritise data analysis.
* To propose future analysis solutions.
* To collaborate in GMI’s strategic scientific development.
* To train and mentor staff members.
* To work with scientists, bioinformaticians, clinical team members, systems analysts, and software analysts.
* To communicate findings with research teams, Genomics Medicine Ireland, collaborators and interested external parties.

**Qualifications**

Several of:

* A PhD in genomics, clinical genetics, human genetics, population genetics, genetic epidemiology or a related molecular biology research area.
* Knowledge and experience in statistical genetics
* Knowledge and experience in using data analysis pipelines/programmes (e.g. NGSQC, GALAXY, DNAnexus, Ingenuity Pathway Analysis, BWA, GATK, SAMtools, ANNOVAR, PLINK/SEQ, WuXi NextCODE, MendelMD, Congenica, OmicSoft)
* Knowledge and experience of working in a Unix/Linux environment and experience with high-performance computing.
* History of publication in top peer-reviewed scientific journals.
* At least 5 years’ experience in the field of genomic research.

**Preferred Experience**

Several of:

* Experience in immunological, neurological, auto-immune, oncological and/or rare disease genomic research.
* Experience in gene-gene interactions, quantitative genetics, pathway analysis, drug target identification, HLA-genetics, multi-omic data analysis, statistical genetics.
* Experience in population genetics, evolution, imputation, epistasis analysis
* CNV analysis, structural variant analysis.
* Experience with multiple large genomic datasets (e.g. 1000 Genomes, ExAC, ICGC TCGA).