



HR EXCELLENCE IN RESEARCH

## Postdoctoral Researcher in Genomics/Computational Biology

### School of Mathematics, Statistics and Applied Mathematics

Ref. No. NUIG-002-19

Applications are invited from suitably qualified candidates for a full-time fixed-term position as a postdoctoral researcher within the Bioinformatics discipline at the National University of Ireland Galway. This position is funded by Science Foundation Ireland (SFI) and is available from 16 May, 2019 to 15 November, 2022

The hosting research group (led by Prof. Cathal Seoighe) works on several aspects of genomics and molecular evolution, typically developing or applying models or methods to address biological questions of interest. Recent work has included development of methods to detect genetic variants affecting germline mutation rates from haplotype data, algorithms for the analysis of deep sequencing data from the T cell receptors and immunoglobulins and the development and application of methods and computational tools to disentangle the effects of cell type composition and gene expression variation in biological samples consisting of mixtures of different cell types. The group is located in the School of Mathematics, Statistics and Applied Mathematics at NUI Galway and is part of the Bioinformatics and Biostatistics Research Cluster (<http://maths.nuigalway.ie/biocluster/>). This project will involve modeling somatic mutation processes, including sources of variation across the genome, between individuals in populations or between species.

#### Job Description:

The successful candidate will be capable of working as part of the project team, which will include four PhD students, and of helping to guide and develop the research programme. (S)he will develop models, write computer code and analyse data and will be expected to produce publication quality scientific outputs.

#### Duties:

- Develop statistical/probabilistic models of mutation processes
- Perform analysis of genomics data
- Produce publication-quality research reports
- Co-mentor the research of others as part of a research group
- Make occasional contributions to outreach activities and teaching as required

#### Qualifications/Skills required:

##### Essential Requirements:

- PhD in a cognate discipline (bioinformatics, computer science, mathematics, statistics, etc.)
- Good computer programming skills
- Experience and/or qualifications in statistical data analysis

##### Desirable Requirements:

- Background knowledge relevant to the objectives of the research project
- Experience of analysing somatic mutation data
- Ability to work as part of a team and individually
- Ability to motivate and co-direct the research of other team members
- Strong motivation to carry out research in the project area

**Salary:** €40,662 to €44,267 per annum

**Start date:** Position is available from 16 May 2019

**Continuing Professional Development/Training:**

Researchers at NUI Galway are encouraged to avail of a range of training and development opportunities designed to support their personal career development plans.

Further information on research and working at NUI Galway is available on [Research at NUI Galway](#)

For information on moving to Ireland please see [www.euraxess.ie](http://www.euraxess.ie)

Further information about the School of Mathematics, Statistics and Applied Mathematics is available at <https://www.nuigalway.ie/science/school-of-maths>

Informal enquiries concerning the post may be made to Prof. Cathal Seoighe

**To Apply:**

Applications to include a covering letter, CV, and the contact details of three referees should be sent, via e-mail (in word or PDF only) to Cathal Seoighe; email: [Cathal.Seoighe@nuigalway.ie](mailto:Cathal.Seoighe@nuigalway.ie)  
Please put reference number **NUIG-002-19** in subject line of e-mail application.

**Closing date for receipt of applications is 5.00 pm (Irish Time) Friday, 15<sup>th</sup> February 2019**

National University of Ireland, Galway is an equal opportunities employer.

All positions are recruited in line with Open, Transparent, Merit (OTM) and Competency based recruitment

