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HR EXCELLENCE IN RESEARCH

Postdoctoral Researcher (x2) - Bioinformatics

School of Mathematical & Statistical Sciences

Ref. No. 011686

JOB ADVERTISEMENT

Applications are invited from suitably qualified candidates for 2 x full-time, fixed term positions as Postdoctoral Researchers in Bioinformatics at the University of Galway, Ireland.

These positions are funded by the HEA NSRP and are available immediately, to contract end date of 31/08/2027.

Job Description:

These posts will be based in the [Ó Broin lab](#) as part of CLuB – the All-Ireland Cancer Liquid Biopsies Consortium. CLuB is a ~€4M North-South Shared Research Programme, which includes collaborators in the University of Galway, Trinity College Dublin (TCD), St. James's Hospital (SJH), and Queens University Belfast (QUB). CLuB's aim is to advance our understanding of cancer biology and improve clinical care for cancer patients through the use of liquid biopsies for the identification of minimally-invasive, integrative biomarkers for therapeutic response.

At University of Galway, we are developing a customised cloud-based instance of the cBioPortal cancer genomics platform to serve as an all-Ireland 'virtual biobank' for CLuB data in order to drive discovery in this area. To advance this work, we are seeking two highly-motivated post-doctoral researchers to fill the following roles:

Role 1: Development of a web application for the CLuB All-Ireland cancer liquid biopsy data to facilitate integration of clinical and genomic data.

Role 2: Development of ML models for predictive analytics on integrated clinical and genomic data (prediction of recurrence/progression-free survival)

Salary: Postdoctoral Researcher salary scale €46,805 - €59,654 per annum, (subject to the project's funding limitations), and pro rata for shorter and/or part-time contracts.

The default position for all new public sector appointments is the 1st point of the salary scale. This may be reviewed, and consideration afforded to appointment at a higher point on the payscale (subject to the project's funding limitations), where evidence of prior years' equivalent experience is accepted in determining placement on the scale above point 1, subject to the maximum of the scale.

[\(Research Salary Scales - University of Galway\)](#)

Closing date for receipt of applications is 17:00 (Irish Time) on April 9th 2026. It will not be possible to consider applications received after the closing date.

Please specify which position you are applying for (candidates possessing the requisite skills may apply for both).



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***Please review full job description for further details and essential requirements.**

Duties:

- Conduct a specified programme of research and scholarship under the supervision and direction of the Principal Investigator.
- Plan, co-ordinate and implement research project (this may include managing a small research team/co-ordinating other researcher activity).
- Keep up to date with research related methods and techniques, in particular, developments in the specific research area.
- Present on research progress and outcomes e.g. to bodies supervising research; conferences, steering groups; other team members, or otherwise as agreed with the PI.
- Contribute to the research project's dissemination in the form of e.g. report, papers, chapters, book.
- Where appropriate, work with the PI to register patents to protect intellectual property arising from the research.
- Mentor and assist, as appropriate and as directed, graduate students in the School, including acting as co-supervisor or member of a supervision panel.
- Engage in Education and Public Engagement (EPE) activities of the School.
- Develop and maintain Knowledge and understanding of the policy, practices and procedures, relevant to the role, which may include broader University/sector/external sponsor or funder (e.g. Commercial Awareness, Research Ethics, Knowledge Transfer, Patents, Intellectual Property Rights, Health and Safety, Equal Opportunities & Diversity, legal requirements regarding data protection and confidentiality).
- Any other duties assigned commensurate to this level of post.

ELIGIBILITY REQUIREMENTS

Essential Requirements (Role 1):

- Completed PhD in Genomics Data Science (candidates awaiting viva will not be shortlisted)
- Demonstrated expertise in the development of web applications using React/NextJS
- Demonstrated expertise in the development and secure cloud-based deployment of cBioPortal (AWS, Keycloak IAM, RBAC, network configuration and security)
- Demonstrated expertise in the writing of Nextflow pipelines and the use of AWS Batch for scalable workload distribution
- Excellent programming skills in at least two of: Python, Bash, R, C

Essential Requirements (Role 2):

- Completed PhD in Genomics Data Science (candidates awaiting viva will not be shortlisted)
- Demonstrated expertise in the analysis of cancer genomics, including the use of machine learning/deep learning methods for patient stratification and/or biomarker discovery
- Demonstrated expertise in the development of LLMs, RAG, and agentic AI for natural language querying of structured data
- Demonstrated expertise in developing scalable, reproducible containerised pipelines (Nextflow, Docker/Singularity)
- Excellent programming skills in at least two of: Python, Bash, R



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Desirable Requirements (Role 1 and Role 2):

- Excellent written and oral communication skills and a well-developed ability to communicate technical concepts to non-experts.
- Excellent interpersonal, project management and people management skills.
- Track record of scientific publication and dissemination of results commensurate with career stage
- Experience in student supervision and teaching

CONTINUING PROFESSIONAL DEVELOPMENT

Continuing Professional Development/Training:

Researchers at University of Galway are encouraged to avail of a range of training and development opportunities designed to support their personal career development plans. University of Galway provides continuing professional development supports for all researchers seeking to build their own career pathways either within or beyond academia. Researchers are encouraged to engage with our Researcher Development Centre (RDC) upon commencing employment - see [HERE](#) for further information.

FURTHER INFORMATION/LINKS

- **TO APPLY:** [Search Current University of Galway vacancies](#). Applications must be submitted online.
 - [How to apply guide](#)
- For informal enquiries, please contact Dr. Pilib Ó Broin (pilib.obroin@universityofgalway.ie)
- [University's Strategic Plan](#)
- [Working in Research at University of Galway](#)
- [Moving to Ireland \(Euraxess\)](#)
- [Applicant Information](#)
- We reserve the right to re-advertise or extend the closing date for this post.
- University of Galway is an equal opportunities employer.
- All positions are recruited in line with Open, Transparent, Merit (OTM) and Competency based recruitment.



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