



OLLSCOIL NA GAILLIMHE
UNIVERSITY OF GALWAY



HR EXCELLENCE IN RESEARCH

Postdoctoral researcher/Research Associate – Research Ireland ARC Hub for HealthTech

**Anatomy, School of Medicine, College of Medicine, Nursing and Health
Sciences**

Ref. No. 011221

JOB ADVERTISEMENT

Applications are invited from suitably qualified candidates for a full-time, fixed term position as a postdoctoral researcher with Dr Rachel Beatty in Anatomy, ([Anatomy - University of Galway](#)) at the University of Galway, Ireland. The post is available from 1st October 2025 to contract end date of 31st May 2026, with the possibility of extension for a further year.

Salary: Postdoctoral Researcher salary scale €45,846 - €58,481 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 1st August 2025. It will not be possible to consider applications received after the closing date.

***Please review full job description for further details and essential requirement**

JOB DESCRIPTION

Implantable medical technologies offer promise to advanced therapeutic interventions in healthcare but a major barrier to their success is the foreign body response (FBR). In the context of drug delivery, this encapsulation impairs device function. The FBR varies in duration and severity depending on the individual. Thus, to overcome it, drug delivery must be precisely tuned, controlled and personalized. Our research group have developed a smart soft- robotic drug delivery platform, capable of drug delivery past FBR obstruction.

This position requires in-depth knowledge related to the development of an actuation control system within a soft robotic drug delivery system. This position will further develop this technology through iterative device design, in silico, in vitro and in vivo testing. It will also establish a commercialisation roadmap and achieve key commercialisation milestones.

This position is funded through the ARC Hub for HealthTech. The ARC Hub for HealthTech is co-funded by the Government of Ireland and the European Union through the ERDF Northern & Western Regional Programme 2021-2027. This is a collaborative initiative between University of Galway, Atlantic Technological University (ATU) and the RCSI University of Medicine and Health Sciences, to guide academic projects in the MedTech and connected health technologies to commercial success



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on a national scale in conjunction with other Higher Education Institutions (HEI) in the Republic of Ireland. The ARC Hub for HealthTech will support the translation of cutting-edge MedTech and connected health innovations into impactful healthcare solutions.

Duties:

- Design and perform experiments and analyses relevant to medical implants and collaborate with scientific groups locally, nationally and internationally.
- Lead the design, execution and analysis of in silico, in vitro and in vivo experiments.
- Proactively identify risks and technical solutions.
- Take responsibility for day-to-day management of the research project and supervision of students
- Engage in appropriate training and professional development opportunities as required by your Principal Investigator, funder, your School or Institute, or the University.
- Work with ARC Hub team to accelerate device commercialization including preparation of a commercialization roadmap, stakeholder interviews and preparation of invention disclosures or patent applications
- Publish peer-reviewed articles and present findings at national/international scientific meetings
- To complete the administrative work to support the programme of research, including compiling reports to funder.
- Any other duties assigned commensurate to this level of post

ELIGIBILITY REQUIREMENTS

Essential Requirements

- PhD in Biomedical Science, Biomedical Engineering or related field. Candidates that have submitted their thesis prior to start date and awaiting viva will be considered.
- Experience designing and conducting in vivo assessments OR demonstration of a strong commitment to up-skill.
- Strong track record in designing and executing in vitro assessments.
- Experience with computational modelling of biological systems, biomedical applications or medical devices.
- Demonstratable interest in translational research.
- Demonstration of dynamic, creative thinker and problem solver interested in soft robotics and implantable medical implants.

Desirable Requirements

- Experience in developing machine learning techniques.
- Experience with advancing the technology readiness levels (TRL) for commercialisation.
- Experience in medical device design and fabrication.
- Peer-reviewed publications.
- Flexible, self-motivated; ability to work independently and collaboratively.
- Strong written, verbal, and interpersonal communication skills, including skill to produce information that is appropriately presented.



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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.

TO APPLY: [Search Current University of Galway vacancies](#). Applications must be submitted online.

- [How to apply guide](#)

For informal enquiries, please contact Dr Rachel Beatty, Lecturer in Anatomy and AI Applications in Medicine, School of Medicine. Email rachel.beatty@universityofgalway.ie

FURTHER INFORMATION/LINKS

- [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.



Rialtas na hÉireann
Government of Ireland



Arna chomhchistiú ag
an Aontas Eorpach
Co-funded by the
European Union



Tionól Réigiúnach
An Tuaiscirt & An Iarthair
Northern & Western
Regional Assembly



Taighde Éireann
Research Ireland

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