**Research Fellow in the School of Medicine at NUIG**

**LILY – Disruptive Technology Innovation Fund (DTIF) Round 3**

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

**Ref. No. NUIG RES 204-22**

Applications are invited from suitably qualified candidates for a full-time, fixed term positions as Research Fellow in the Lowery Lab and Translational Medical Device Lab in collaboration with the Duffy Lab within the School of Medicine at the National University of Ireland Galway.

This position is funded under the **Disruptive Technologies Innovation Fund** (**DTIF**) **Round 3** which is a €500 million fund established under the National Development Plan (NDP).

The position is available from September 1st, 2022, to contract end date of March 31st, 2024.

**Job Description:**

The Research Fellow will be the lead clinical site engineer on a first in human clinical trial of a novel device to prevent hair loss caused by chemotherapy. This role offers candidates the opportunity to personally bring a novel medical device from lab-research through to clinical impact.

The successful candidate will have the opportunity to shape clinical trial protocols, lead patient recruitment, and perform preliminary data analysis. You will act as the link between benchtop device development and bedside implementation of the technology. You will participate in cross-consortium meetings with industry project partners Luminate Medical and Gentian Services, providing key updates on clinical progress.

The successful candidate will be based in the Lowery Lab in the Lambe Institute in the School of Medicine at NUI Galway. The candidate will be supported in their professional development, be able to avail of a range of career level focussed training opportunities, have the potential to publish research findings in leading journals and to protect intellectual property.

**Duties:**

* Oversee the first in human clinical trial of the Lily Device including defining research objectives, developing measurement techniques, and planning the research study.
* Management of trial device prototypes, including de-bugging, verification and validation testing, and development of SOPs.
* Plan, manage and support patient recruitment. Interface with clinical teams to identify patient candidates, provide patients with clear risk-benefit information, and document consent from patients to participate.
* Support patient participation in studies. Actively participate in taking measurements, assisting patients to use trial devices, and developing procedures for more effective patient participation.
* Develop and implement quality assurance measures to maintain a high quality research output and seamless patient exerience.
* Work with other team members to plan project activities, identify key objectives and set key milestones.
* Keep up to date with research related methods and techniques, in particular, developments in the specific research area.
* Contribute to publications and/or development of IP.

**Qualifications/Skills required:**

**Essential Requirements:**

* MEng or BEng in Biomedical Engineering (or related discipline) and 4 - 6 years industry/research experience.
* Experience in medical device design, testing and evaluation, especially experience in:
  + Working with and creating medical device prototypes, including benchtop device testing and iteration.
  + Working from first principles in de-bugging device issues and troubleshoot errors.
  + Designing systematic test methods to ensure consistent performance.
  + Identifying device and process shortcomings based on observations and user feedback and designing solutions to meet these needs.
* You can work in a team, act as a research leader, and collaborate across disciplines.
* Posess a high level of initiative, project management capability, and motivation.
* You understand research ethics, intellectual property development, and legal requirements regarding data protection and patient confidentiality.
* You are an excellent communicator, both written and oral.
* Experience in working with patients in a clinical setting or in medical device clinical trials.

**Desirable Requirements:**

* PhD in Biomedical Engineering (or related discipline)
* Mechanical design, industrial design, or human factors design experience.
* Experience in the presenting of research findings to technical/non-technical audiences.

**Salary**: Point 1 of the Research Fellow Salary Scale €56,933 per annum pro rata for shorter and/or part-time contracts (public sector pay policy rules pertaining to new entrants will apply).

**Start date**: Position is available from September, 2022

**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](http://www.nuigalway.ie/our-research/)

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

Further information about the College of Medicine, Nursing and Health Sciences is available at:

<http://www.nuigalway.ie/medicine-nursing-and-health-sciences/research/>

Informal enquiries concerning the post may be made to Professor Aoife Lowery via email at: [aoife.lowery@nuigalway.ie](mailto:aoife.lowery@nuigalway.ie)

**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 Professor Martin O’Halloran in cc via email at: [martin.ohalloran@nuigalway.ie](mailto:martin.ohalloran@nuigalway.ie)

Please put reference number **NUIG-RES 204-22** in subject line of e-mail application.

**Closing date for receipt of applications is 5.00 pm September 1st 2022**

**Interviews are planned to be held on September 7th, 2022**

We reserve the right to re-advertise or extend the closing date for this post.

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

'NUI 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 [www.nuigalway.ie/rdc](http://www.nuigalway.ie/rdc) for further information.'

