



HR EXCELLENCE IN RESEARCH

Postdoctoral Researcher – Cell Biology

NUI Galway Flow Cytometry Core Facility/CÚRAM

National University of Ireland, Galway

Ref. No. NUIG162-16

Applications are invited from suitably qualified candidates for a full-time, fixed term position as a Postdoctoral Researcher with NUI Galway Flow Cytometry Core Facility at the National University of Ireland, Galway.

This position is funded by the Centre for Research in Medical Devices (CÚRAM) and is available from February 2017 to contract end date of December 2020.

Job Description:

This exciting new position combines a flow cytometry specialist role together with an imaging flow cytometry based research project and would suit candidates with an interest in high end flow cytometry applications.

The research project will focus on developing an imaging flow cytometry based assay (using an Amnis ImageStream x mark II imaging flow cytometer) to quantify extracellular vesicle size, density and surface marker expression in medium derived from cultured human breast cancer cells. In addition flow cytometry techniques will be used to characterise the uptake and functional effects of human breast cancer cell-derived extracellular vesicles on macrophages and T-cells. The long term goal is to develop a viably commercial device concept for the application of nanoscale technology to directly detect and quantify cancer cell-derived extracellular vesicles.

In addition to this research project, the successful applicant will also play an important role in the delivery and development of services, protocols, consultation and training to users of the NUI Galway Flow Cytometry Core Facility.

Duties:

- Plan, co-ordinate and implement a research project to quantify extracellular vesicle size, density and surface marker expression in medium derived from cultured human breast cancer cells
- Present on research progress and outcomes to bodies supervising research, steering groups, research centres, as agreed with the PI/project leader.
- Write original manuscripts and make presentations at national and international scientific meetings of relevance to extracellular vesicles, breast cancer and imaging flow cytometry technology.
- Develop academic and industry collaborations of relevance to the analysis of breast cancer-derived extracellular vesicles and their analysis
- Manage own personal and research resources including research budget and keep records as directed and in line with Funder/University policy as appropriate.
- Provide training, technical expertise and analysis support to postgraduate students, research trainees and other core facility users in the planning and performance of imaging flow cytometry experiments
- Maintain and carry out regular quality control procedures on an imaging flow cytometer.

Qualifications/Skills required:

Essential Requirements:

- PhD in Immunology, Cancer Biology or similar field.
- Previous experience in flow cytometry is essential.
- Demonstrable experience in multi-disciplinary research and ability to work in a team.

Desirable Requirements:

- Prior research experience related to cancer, cellular immunology or extracellular vesicles is desirable but not essential.
- Previous experience in imaging flow cytometry is desirable but not essential.

Salary: €38,860 to €41,181 per annum

Start date: Position is available from February 2017

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

Further information about the NUI Galway Flow Cytometry Core Facility is available at: www.ncbes.eurhost.net/flow-cytometry-core-facility.aspx, information on CÚRAM is available at: <http://www.curamdevices.ie/curam/>.

Informal enquiries concerning the post may be made to Professor Rhodri Ceredig, Rhodri.ceredig@nuigalway.ie or Dr. Shirley Hanley, shirley.hanley@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 Dr. Shirley Hanley: shirley.hanley@nuigalway.ie.

Please put reference number **NUIG-162-16** in subject line of e-mail application.

Closing date for receipt of applications is 5.00 pm on Friday 27th January 2017.

Interviews will be held Monday 13th February 2017.

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

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

