



Post-doctoral Research Fellow Position Available – Exosome Detection and Manipulation

The Centre for BioNano Interactions, University College Dublin is seeking a highly motivated Post-Doctoral Research Fellow with research background in relevant areas of molecular and cellular biology to join a dynamic team dedicated to advancing the understanding and implementation of diagnostics and therapeutics at the nanoscale.

The successful candidate will work on detection and manipulation of exosomes as complex nanostructures for use in biomedical applications. As such, demonstrated experience in production and harvesting of exosomes or viruses using bench-scale bioreactors is highly desirable. Analytical experience of extracellular media, and study of cell culture medium components using chromatographic or other techniques would be advantageous.

In addition to conducting research, the successful candidate will help supervise and support PhD students working on the same topic, promote publication in high quality peer reviewed academic publications, assist in the development of funding proposals and the management and reporting of projects and will generally contribute to the professional and smooth running of a highly interdisciplinary team.

About CBNI

Located in Dublin, one of the most vibrant cities in Europe, CBNI is pioneering new techniques and approaches at the research interface between nanoscale science and living systems, with applications in the biomedical arena. The team is highly interdisciplinary and dynamic and would suit young scientists that aspire to be at the leading edge of an emerging field of science and biomedical research.

Key areas of research at CBNI include:

- Fundamental understanding of interactions between nanoparticles and living systems at cellular level and *in vivo*
- Exosome detection and manipulation
- Novel approaches to vaccine development
- Applications of bio-nanoscale science for therapy and diagnostics

Mandatory Qualifications

- PhD in relevant disciplines of molecular and cellular biology
- Experience in intercellular communication and cell signalling
- Evidence of research activity (publications, conference presentations, awards) and future scholarly output (working papers, research proposals) and ability to outline a research project.
- A demonstrated commitment to research and publications
- An understanding of the operational requirements for a successful research project
- Excellent communication skills (Oral, Written, Presentation etc), the ability to work effectively in a team and be self-motivated
- Excellent organisational and administrative skills including a proven ability to work to deadlines

Salary: €36,489-€37,013 per annum

Appointment on the above range will be dependent on qualifications and experience.

This is a full-time temporary position for (initially) 1 year.

For further detail and to apply, please refer to the University College Dublin vacancies page available [at this link](#) with job ref number **010299**