



Job Description

College	Science
School	Chemistry and Chemical Biology
Post Title	UCD Post-doctoral Research Fellow Level 1
Project	NANOKINETICS
Post Duration	2 years
Reports to	Prof. Kenneth Dawson
HR Reference No.	006696
HR Administrator	Sarah Dunne

Position Summary

UCD requires a post doctoral fellow with a broad experience with nanomaterials' characterisation and interactions with biological species to support the industry-led development project NANOKINETICS funded by the Collaborative Centre for Applied Nanotechnology (CCAN). The role will involve preparation and characterisation of nanomaterial samples in different dispersion media with the purpose to develop and validate novel approaches to investigate the physical and chemical properties of nanoparticles in liquid dispersion. The position requires an individual with a strong level of autonomy but who is able to work well as part of a team, and in multi-disciplinary and multi-cultural research environment, as well as a willingness to work at the interface between nanoscience and biology. The project is developed in close collaboration with Irish- and US-based industry partners, therefore understanding of intellectual property management and confidentiality is essential.

The successful applicant will be required to characterise nanomaterials using a range of techniques, including Dynamic Light Scattering (DLS), Differential Centrifugal Sedimentation (DCS), Electron Microscopy, protein samples using Polyacrylamide Gel Electrophoresis (1D-PAGE), develop and validate a novel platform to assess the dispersion properties of nanomaterials.

This is a research focused role, where you will conduct a specified programme of research supported by research training and development under the supervision and direction of a Principal Investigator. The primary purpose of the role is to further develop your research skills and competences, including the processes of publication in peer-reviewed academic publications, the development of funding proposals, the mentorship of graduate students along with the opportunity to develop your skills in research led teaching.

Salary: €33,975 - €37,063 per annum

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

Principal Duties and Responsibilities

- Conduct a specified programme of research and scholarship under the supervision and direction of your Principal Investigator.
- Engage in appropriate training and professional development opportunities as required by your Principal Investigator, your School or Institute, or the University.
- Engage in the dissemination of the results of the research in which you are engaged as directed by and with the support of and under the supervision of your Principal Investigator.
- Engage in the wider research and scholarly activities of your research group, School and Institute.
- Mentor and assist, as appropriate and as directed, the research graduate students in your group, School and Institute.
- Carry out administrative work associated with your programme of research.

Selection Criteria

Selection criteria outline the qualifications, skills, knowledge and/or experience that the successful candidate would need to demonstrate for successful discharge of the responsibilities of the post. Applications will be assessed on the basis of how well candidates satisfy these criteria.

Mandatory

- PhD in Chemistry, Nanoscience,
- A demonstrated commitment to research and publications
- An understanding of the operational requirements for a successful research project
- Evidence of research activity (publications, conference presentations, awards) and future scholarly output (working papers, research proposals, and ability to outline a research project.
- Excellent Communication Skills (Oral, Written , Presentation etc)
- Excellent Organisational and Administrative skills including a proven ability to work to deadlines
- Experience with physico-chemical characterisation of nanomaterials
- Ability to grasp complex dynamics involving confidentiality, intellectual Property, etc.
- Ability to work as part of a team in a dynamic, rapidly evolving arena
- Excellent written and oral English

The PD1 position is intended for early stage researchers, either just after completion of a PhD or for someone entering a new area for the first time. If you have already completed your PD1 stage in UCD or will soon complete a PD1, or you are an external applicant whose total Postdoctoral experience, inclusive of the duration of the advertised post, would exceed 4 years, you should not apply and should refer to PD2 posts instead.

Desirable

- Previous industrial experience or experience in industrial engagement.
- Experience in working in a multi-disciplinary environment
- Experience in setting own research agenda
- Ability to interact with leaders in industry, international organizations, government organizations, and academia.
- Demonstrated understanding of the value of academic and commercial information e.g. Non-disclosure agreements.
- Demonstrated ability to work independently and as part of a team.
- Ability to manage multiple diverse tasks by setting priorities and scheduling resources within the team

Further Information for Candidates

Supplementary information

The University:	http://www.ucd.ie/aboutucd.htm
The College of Science:	http://www.ucd.ie/science/
The School of Chemistry & Chemical Biology:	http://www.ucd.ie/chem/
Project is funded by the Collaborative Centre for Applied Nanotechnology (CCAN):	www.ccan.ie

UCD offers a comprehensive **Research Careers Framework** in line with the Advisory Science Council Report '*Towards a Framework for Researcher Careers*'. This model provides a structured and supportive **Career and Skills Development** system designed to ensure that Post-docs in UCD are able to plan their careers and prepare for future opportunities in academia, industry or the public sector.

For more information, please [click here](#).

Relocation Expenses

- Will not apply
- Will be applied in accordance with the UCD policy
<http://www.ucd.ie/hr/policies/#d.en.31150>

Informal Enquiries ONLY to:

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