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RCSI DEVELOPING HEALTHCARE LEADERS WHO MAKE A DIFFERENCE WORLDWIDE

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| Title: | Imaging Specialist |
| Department: | Super Resolution Imaging Consortium and the Department of Chemistry |
| Tenure: | 1 year with the potential to renew for a further 3 years |
| Location: | Royal College of Surgeons in Ireland, St. Stephens Green campus, Dublin 2 |
| Reporting to: | Prof. Donal O'Shea |
| Proposed Start Date: | March 2021 |

As a **University of Medicine and Health Sciences**, the **Royal College of Surgeons in Ireland (RCSI)** is a degree-awarding health sciences institution specialising in medical and health sciences education, surgical training and research. As a global institution with undergraduate medical programmes in Dublin, Bahrain and Malaysia; Schools of Medicine, Pharmacy and Biomolecular Sciences, Physiotherapy, Postgraduate Studies and Nursing and Midwifery; and Leadership Institutes in Ireland and Dubai, RCSI has a broad international reach and the ability to unlock significant advancement for patient safety and clinical outcomes worldwide.

RCSI recognises that excellence in research is critical to the quality of its educational activities, its credibility, and, overall, to its mission to enhance human health. Recently, RCSI has implemented a new research strategy that will build upon its strength in translational biomedical and clinical research to deliver transformational, high impact changes in health care. Targeting both Irish national and EU funding, along with increased collaboration with industry, is a major part of the RCSI research strategy. Forging increased collaboration between RCSI PIs and industry is of critical importance to achieving success in this area. RCSI is also committed to provide its researchers with the supports and developmental opportunities to enable them to continuously grow and support their overall career development.

Background to the Position

The Super Resolution Imaging Consortium (SRIC) is a joint initiative of RCSI and the University College Dublin (UCD) to provide an infrastructural network of super-resolution imaging equipment for a broad set of users from the physical, biological and medical sciences in Ireland. Funding from Science Foundation Ireland has provided infrastructural capacity for imaging via single molecule localisation microscopy (SMLM, including STORM, PALM, PAINT, DNA-PAINT), stimulated emission depletion (STED) microscopy, SRRF, and correlative light and electron microscopy (CLEM) imaging modalities. Further imaging modalities include advanced confocal microscopy and fluorescence lifetime imaging (FLIM).



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As a new facility, the SIRC is highly multi-disciplinary and utilised by a broad spectrum of researchers in the physical, medical and biological sciences. The successful candidate will work as part of a dynamic team with expert and non-expert users on research questions encompassing all areas of super resolution microscopy.

Specific Responsibilities;

Research;

- Train new users and assist experienced users with specific complex instrument requirements
- Advise on the design and conduction of super resolution microscopy experiments
- Design and carry out experiments independently as needed
- Work meticulously to acquire high quality data using a variety of microscopy techniques
- Assist users to process and critically analyse image data
- Prepare written reports as necessary
- Report work at scientific meetings in both the healthcare and scientific fields
- Work pro-actively to develop new avenues of research associated with new and emerging methods in super-resolution and correlative microscopy
- Work with collaborating research groups nationally

Laboratory and administrative duties;

- Manage the day-to-day running of the SRIC facility in RCSI
- Manage the upkeep of SRIC equipment in RCSI
- Take on managerial responsibilities within the project
- Participate in maintaining a safe, clean and healthy working environment
- Read, understand and regularly update self and members of the SRIC on health and safety matters
- Participate in ordering lab supplies and maintaining stocks
- Maintain meticulous records of equipment users

Other responsibilities;

- Undertake any necessary training and/or development
- Any other duties commensurate with the grade of the post as directed by line manager
- Representing the best interests of the Department/College at all times

Qualifications:

- A Ph.D. in any scientific discipline utilizing super-resolution imaging techniques or a B.Sc. with extensive knowledge and hands-on experience of super-resolution imaging



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Knowledge & Experience:

Essential:

- experience in operating confocal microscopes and epifluorescence microscopes
- experience in performing super-resolution experiments
- experience with advanced image data analysis
- attention to detail, thoroughness in work practices and an ability to work to deadlines
- a passion for fundamental and applied scientific discovery

Desirable:

- experience with training of new users
- prior work experience in an imaging facility

Skills & Competencies:

- **Communication Skills:** Proven ability to communicate complex ideas
- **Project Management Skills:** Ability to ensure that project plans are communicated and that all timelines are met
- **Self-starter with the ability to work as part of a team:** Ability to operate effectively as part of a team – is cordial, tolerant and willing to help others, is co-operative and patient; shares work and information; establishes rapport, can influence and develop effective networks
- **I.T. skills:** Knowledge of MS Office suite and image analysis software
- **Conscientious:** Have a pro-active approach to work, anticipating and resolving problems in advance; have keen attention to detail - from anticipating and addressing issues in advance to understanding requests and delivering quality work with minimal errors
- **Flexibility:** Can operate flexibly within a busy environment; can shift focus when required.
- **Customer Focus:** Have strong customer service skills. Be able to communicate with a high level of initiative, tact, diplomacy and confidentiality
- **Motivated:** Display a 'can-do' attitude and demonstrate enthusiasm and passion for the role

Application Process;

Please apply online no later than 5pm on the closing date with your CV and Covering Letter. Informal Enquiries can be directed to Prof Donal O'Shea, Professor of Chemistry at donalfoshea@rcsi.ie

Please Note:

This job description may be subject to change to reflect the evolving requirements of the Department and RCSI in developing healthcare leaders who make a difference worldwide.

Similar vacancies that arise in the next 6 months may be filled from the pool of applicants that apply for this position.



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Employees are required to undertake 6 months service in their current role before applying for other internal opportunities, unless agreed in advance by the SMT representative.

RCSI is proud to be an equal opportunity employer and welcome applications from all suitably qualified persons regardless of their gender, civil status, family status, sexual orientation, religion, age, disability or race.

If you have any particular requirements for your interview, please notify the Human Resources Department at your earliest convenience.



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