

Lecturer in Quantum and Photonics: Theory, Materials, Technology and their synergy

Permanent Whole Time Post

Salary scale €72,602 - €94,024 (Scale B) / €69,075 - €89,321 (Scale A)

UCC Futures - Quantum and Photonics seeks applications from distinguished and dynamic candidates at the level of Lecturer in the physics fields of Quantum and Photonics, including but not limited to Quantum Theory, Quantum Materials, Quantum Technology, Quantum Photonics, Optical Spectroscopy, Photonic Devices and Systems, all with a view to achieving strong collaborative synergy across sub-disciplines.

The successful appointees will have a strong track record of delivering innovative research outcomes at the cutting edge of their field. They will have demonstrated ability to develop exciting research ideas and lead independent research that is aligned with the ambitions of UCC Futures – Quantum and Photonics.

Successful candidates will develop new research programmes in fundamental and/or applied aspects of Quantum and Photonics that have clear potential for collaboration and synergy with existing groups in the School of Physics, the School of Engineering and Architecture, the School of Mathematical Sciences and the Tyndall National Institute. Potential for collaboration with industrial partners is also desirable.

Candidates with experimental and/or theoretical expertise are welcomed.

Candidates should have prominent and successful research experience and expertise to at least PhD level in any of:

- quantum physics / quantum theory / quantum materials / quantum optics/ quantum technology / quantum control, or synergistic research fields;

and/or

- photonic materials / photonic devices / photonic systems, including medical or biological photonics, laser spectroscopy for environmental monitoring, photonic interactions with quantum matter or a closely related area.

Candidates whose research is at the intersection of Quantum and Photonics, or bridges the above profiles in some way, are especially encouraged to apply.

Successful candidates will additionally show proven ability and willingness to develop and teach undergraduate and graduate programmes on topics in general physics, with additional specialism in quantum physics and / or photonics.

For an information package including full details of the post, selection criteria and application process see <https://ore.ucc.ie/>.

Informal enquiries can be made in confidence to:

Professor Alix McCollam, Director of UCC Futures – Quantum and Photonics, Professor of Quantum Technology. Email: amccollam@ucc.ie

Prof. Séamus Davis, Professor of Quantum Physics. Email: jcseamusdavis@gmail.com

Professor Frank Peters, Professor in Photonics, UCC, and IPIC Photonics Centre, Tyndall National Institute. Email: f.peters@ucc.ie

Professor Paul Callanan, Head of the School of Physics. Email: paulc@ucc.ie

These positions are being filled as part of UCC Futures – Quantum and Photonics.

Please apply for the position, **Lecturer in Quantum: Theory, Materials, Technology** or **Lecturer in Photonics: Theory, Materials, Technology**, that is most appropriate to your research expertise and planned research focus. If your research is at the intersection of Quantum and Photonics, or bridges Quantum and Photonics in some way, then you may apply for either position. In this case, please make it clear in your application how your research focus will connect and develop synergy between the areas of Quantum and Photonics.

Please note that Garda vetting and/or an international police clearance check may form part of the selection process.

For an information package including full details of the post, selection criteria and application process see <https://ore.ucc.ie/>. The University, at its discretion, may undertake to make an additional appointment(s) from this competition following the conclusion of the process.

Appointment may be made on the Lecturer Above the Bar salary scale €72,602 - €94,024 (Scale B) / €69,075 - €89,321 (Scale A)

Salary placement on appointment will be in accordance with public sector pay policy.

University College Cork is an equal opportunities employer. We encourage you to reach out to us directly should you require assistance or reasonable accommodation during the recruitment process.

Applications must be submitted online via the University College Cork vacancy portal (<https://ore.ucc.ie/>). Queries relating to the online application process should be referred to recruitment@ucc.ie, quoting the job-title.

Candidates should apply, in confidence, **before 12 noon (Irish Local Time) on Tuesday 5th December 2023**

No late applications will be accepted.

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