



## Job Description

<b>College/Management Unit</b>	UCD College of Science
<b>School/Unit</b>	UCD School of Mathematics and Statistics
<b>Post Title &amp; Subject Area</b>	Lecturer/Assistant Professor in Financial Mathematics
<b>Post Duration</b>	Temporary 5 year post (Commencing on 1 May 2020)
<b>Grade</b>	Lecturer/Assistant Professor (Above the Bar)
<b>Reports to</b>	Head of School
<b>HR Reference No.</b>	012134
<b>HR Administrator</b>	Karolis Lakacauskas

### Position Summary

University College Dublin is seeking to appoint a Lecturer/Assistant Professor in Financial Mathematics in the School of Mathematics and Statistics. Applicants should have expertise in Financial Mathematics or Computational Finance, or both.

UCD School of Mathematics and Statistics is committed to research and teaching across the mathematical sciences, including mathematics, applied mathematics, statistics and actuarial science.

The successful candidate will be expected to engage in research in the Mathematical Sciences, and to contribute to the School's wide-ranging programme of undergraduate and postgraduate teaching.

#### **Equality, Diversity and Inclusion:**

UCD is committed to creating an inclusive environment where diversity is celebrated, and everyone is afforded equality of opportunity. To that end the university adheres to a range of equality, diversity and inclusion policies. We encourage applicants to consult those policies here <https://www.ucd.ie/equality/>. We welcome applications from everyone, including those who identify with any of the protected characteristics that are set out in our Equality, Diversity and Inclusion policy.

Note: It is envisaged an appointee will commence in post on 1 May 2020.

**95 Lecturer/Assistant Professor (2010) ATB Salary Scale:** €53,773 - €84,544 per annum

Appointment will be made on scale and in accordance with the Department of Finance guideline

### Principal Duties and Responsibilities

#### Research

- Engage actively in research and scholarly activity appropriate to the School and, where appropriate, contribute to interdisciplinary research programmes in the university
- Supervise research students and projects, as appropriate
- Disseminate the results of research through publication in academic journals and by other appropriate means
- Engage in initiatives to seek research funding

#### Teaching

- Contribute strongly to the teaching and continuing development of undergraduate and postgraduate courses, as requested by the Head of School
- Engage in the assessment of students
- Utilise a range of appropriate methods of teaching and assessment

- Provide academic counselling and advice to students

#### General

- Participate in the academic administration of the School and appropriate University bodies
- Act as a member of committees as may be required
- Promote the development of the School, College and the University
- Maintain the highest professional standards so that the reputation of the University is enhanced
- Undertake such other duties as requested by the Head of School, and that are commensurate with the nature and grade of the post

#### 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

- A PhD in Mathematics, Applied Mathematics, Statistics or Theoretical Physics, completed prior to 1 January 2020
- Publications in (or accepted by) relevant recognised research journals
- Research in Financial Mathematics or Computational Finance, or a related area
- Have a track record of, and demonstrated commitment to, high-quality university level teaching and student support
- Excellent communication and interpersonal skills
- Candidates must demonstrate how they can positively contribute to fostering an inclusive environment and a level of awareness of equality, diversity and inclusion.

#### Desirable

- Expertise in Numerical Analysis and coding languages e.g. Python, VBA
- Interest in promoting the Mathematical Sciences to society
- Skills that can be applied to enhance the efficiency of the School

## Further Information for Candidates

#### Supplementary information

The University:	<a href="http://www.ucd.ie/aboutucd.htm">http://www.ucd.ie/aboutucd.htm</a>
UCD College of Science:	<a href="http://www.ucd.ie/science/">http://www.ucd.ie/science/</a>
UCD School of Mathematics and Statistics:	<a href="http://www.ucd.ie/mathstat">http://www.ucd.ie/mathstat</a>
Other (Please specify):	n/a

#### Relocation Expenses

- Will not apply

#### Garda Vetting Required

- No

*Cont...*

**Informal Enquiries ONLY to:**

Name:	Professor Brendan Murphy
Title:	Head of School
Email address:	<a href="mailto:brendan.murphy@ucd.ie">brendan.murphy@ucd.ie</a>
Telephone:	353-1-7162382

***Eligibility to compete and certain restrictions on eligibility***

<b>Incentivised Scheme for Early Retirement (ISER):</b>	It is a condition of the Incentivised Scheme for Early Retirement (ISER) as set out in Department of Finance Circular 12/09 that retirees, under that Scheme, are debarred from applying for another position in the same employment or the same sector. Therefore, such retirees may not apply for this position
<b>Department of Health and Children Circular (7/2010):</b>	The Department of Health Circular 7/2010 dated 1 November 2010 introduced a Targeted Voluntary Early Retirement (VER) Scheme and Voluntary Redundancy Schemes (VRS). It is a condition of the VER scheme that persons availing of the scheme will not be eligible for re-employment in the public health sector or in the wider public service or in a body wholly or mainly funded from public moneys. The same prohibition on re-employment applies under the VRS, except that the prohibition is for a period of 7 years, after which time any re-employment will require the approval of the Minister for Public Expenditure and Reform. People who availed of either of these schemes are not eligible to complete in this competition.
<b>Collective Agreement - Redundancy Payments to Public Servants:</b>	The Department of Public Expenditure and Reform letter dated 28th June 2012 to Personnel Officers introduced, with effect from 1st June 2012, a Collective Agreement which had been reached between the Department of Public Expenditure and Reform and the Public Services Committee of the ICTU in relation to ex-gratia Redundancy Payments to Public Servants. It is a condition of the Collective Agreement that persons availing of the agreement will not be eligible for re-employment in the public service by any public service body (as defined by the Financial Emergency Measures in the Public Interest Acts 2009 – 2011) for a period of 2 years from termination of the employment. Thereafter the consent of the Minister for Public Expenditure and Reform will be required prior to re-employment. People who availed of this scheme and who may be successful in this competition will have to prove their eligibility (expiry of period of non-eligibility) and the Minister's consent will have to be secured prior to employment by any public service body.
<b>Declaration:</b>	Applicants will be required to a Pre-Employment Declaration to confirm whether they have previously availed of a public service scheme of incentivised early retirement and/or the collective agreement outlined above. The above represents the main schemes and agreements restricting a candidate's right to be re-employed in the public service. However it is not intended to be an exhaustive list and candidates should declare details of any other exit mechanism they have availed of which restricts their right to be re-employed in the public service. Applicants will also be required to declare any entitlements to a Public Service pension benefit (in payment or preserved) from any other Public Service employment and/or where they have received a payment-in-lieu in respect of service in any Public Service

	employment.
<b>Superannuation and Retirement:</b>	<p>The successful candidate will be offered the appropriate superannuation terms and conditions as prevailing in the University, at the time of being offered an appointment. In general, and except for candidates who have worked in a pensionable (non-single scheme terms) public service job in the 26 weeks prior to appointment (see paragraph d below), this means being offered appointment based on membership of the Single Public Service Pension Scheme (“Single Scheme”).</p> <p>Key provisions attaching to membership of the Single Scheme are as follows:</p>
<p><b>a. Pensionable Age</b> - The minimum age at which pension is payable is 66 (rising to 67 and 68) in line with State Pension age changes.</p> <p><b>b. Retirement Age</b> - Scheme members must retire at the age of 70.</p> <p><b>c. Pension Abatement:</b></p> <ul style="list-style-type: none"> <li>• If the appointee was previously employed in the Civil Service or in the Public Service please note that the Public Service Pensions (Single Scheme and Other Provisions) Act 2012 includes a provision which extends abatement of pension for all Civil and Public Servants who are re-employed where a Public Service pension is in payment. This provision to apply abatement across the wider public service came into effect on 1 November 2012. This may have pension implications for any person appointed to this position who is currently in receipt of a Civil or Public Service pension or has a preserved Civil or Public Service pension which will come into payment during his/her employment in this position.</li> <li>• Department of Education and Skills Early Retirement Scheme for Teachers Circular 102/2007  The Department of Education and Skills introduced an Early Retirement Scheme for Teachers. It is a condition of the Early Retirement Scheme that with the exception of the situations set out in paragraphs 10.2 and 10.3 of the relevant circular documentation, and with those exceptions only, if a teacher accepts early retirement under Strands 1, 2 or 3 of this scheme and is subsequently employed in any capacity in any area of the public sector, payment of pension to that person under the scheme will immediately cease. Pension payments will, however, be resumed on the ceasing of such employment or on the person’s 60th birthday, whichever is the later, but on resumption, the pension will be based on the person’s actual reckonable service as a teacher (i.e. the added years previously granted will not be taken into account in the calculation of the pension payment).</li> <li>• Ill-Health-Retirement  Please note that where an individual has retired from a Civil/Public Service body on the grounds of ill-health his/her pension from that employment may be subject to review in accordance with the rules of ill-health retirement within the pension scheme of that employment.</li> </ul> <p><b>d. Prior Public Servant</b> - While the default pension terms, as set out in the preceding paragraphs, consist of Single Scheme membership, this may not apply to certain appointees. Full details of the conditions governing whether or not a public servant is a Single Scheme member are given in the Public Service Pensions (Single Scheme and other Provisions) Act 2012. However the key exception case (in the context of this competition and generally) is that a successful candidate who has worked in a pensionable (non-single scheme terms) capacity in the public service within 26 weeks of taking up appointment, would in general not become a member of the Single Scheme. In this case such a candidate would instead be offered membership of the UCD Pension Scheme. This would mean that the abatement provisions at (c) above would apply, and in addition there are implications in respect of pension accrual as outlined below:</p> <p><b>e. Pension Accrual</b> - A 40-year limit on total service that can be counted towards pension where a person has been a member of more than one existing public service pension scheme would apply. This 40-year limit, which is provided for in the Public Service Pensions (Single Scheme and other Provisions) Act 2012 came into effect on 28 July 2012. This may have implications for any appointee who has acquired pension rights in a previous public service employment.</p>	

**f. Pension-Related Deduction** - This appointment is subject to the pension-related deduction in accordance with the Financial Emergency Measure in the Public Interest Act 2009.

For further information in relation to the Single Public Service Pension Scheme for Public Servants please see the following website: <http://www.per.gov.ie/pensions>.