



## Job Description

<b>College/Management Unit</b>	UCD College of Science
<b>School/Unit</b>	UCD School of Computer Science - CeADAR
<b>Post Title &amp; Subject Area</b>	<b>Senior Research Data Scientist (New industry sectors)</b>
<b>Project</b>	<b>Applied Data Analytics</b>
<b>Post Duration</b>	Temporary 2 year post
<b>Reports to</b>	CeADAR Centre Director & Principal Investigator
<b>HR Reference No.</b>	013907
<b>HR Administrator</b>	Gail Lindblom

### Position Summary

Applications are invited from suitably qualified persons for the post of Senior Data Scientist in the Centre for Applied Artificial Intelligence (CeADAR). CeADAR is part funded by Enterprise Ireland and the IDA and is the national centre for applied data analytics and machine intelligence. Its market-focussed agenda is developed in conjunction with its strong membership base of over 90 MNCs and SMEs. See [www.ceadar.ie](http://www.ceadar.ie) for further details.

CeADAR is seeking an experienced and high-calibre individual who has a demonstrated successful track record in AI/data science covering technical leadership, securing funding awards, project management and business development activities. The successful candidate will also be expected to assist in setting the strategic agenda for the Centre.

CeADAR is based in UCD and is a collaboration between UCD and TUD. CeADAR conducts research in AI and data analytics and in related areas and develops proof-of-concept applications in cooperation with our industry partners. The Centre is also active in its participation in Horizon 2020/Europe consortia. The research at CeADAR covers a broad spectrum including explainable AI, computer vision, cybersecurity, machine learning, prediction, text mining and natural language processing, data visualisation, and data management.

This is a unique and exciting opportunity to work on a range of advanced projects in collaboration with industry partners and other researchers at the cutting edge of AI.

### 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

**Salary range:** €60,00 - €73,000 per annum

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

### Principal Duties and Responsibilities

Technical

- Technical leadership and oversight of projects undertaken by the research team, including open innovation projects in association with company partners and state agency funded projects such as under the EI Innovation Partnership Programme.
- Hands-on research and development activities as required, including devising technical solutions, implementing software, evaluating proposed solutions in the field of AI and analytics. Specific areas of expertise include: explainable AI, machine learning (including deep learning), computer vision, real-

time and time series data analytics, text mining and natural language processing, big data processing and storage frameworks

- Dissemination of research outputs and evangelisation of technologies at industry seminars and conferences.
- Authorship of technical papers, project reports, white papers, state-of-the-art reports and related documents.
- Communication of data driven insights to non-technical audiences

#### Management/Organisational

- Management of research projects with company partners including ensuring milestones are achieved and deliverables are produced to specification and on time.
- Management of team members
- Managing communications with company partners
- Scoping, planning and costing of research projects for industry partners

#### Business Development

- Active pursuit of funding awards both nationally and internationally specifically Horizon Europe
- Assisting with business development and commercialisation activities when required
- Pursuit and development of commercialisation opportunities for the centre's research outputs
- Involvement in external industry, academic and government groups and fora with a view to publicising and promoting the activities of the centre

### **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 computer science or a closely related discipline
- Experience as a technical leader
- Strong software development skills using Java, Python, Scala or similar languages, and strong database skills
- Knowledge of AI and data analytics methods and extensive experience with several of: deep learning and relevant technologies (e.g. TensorFlow, Keras), advanced machine learning and related technologies (e.g. Weka, H2O.ai, Scikitlearn)
- Experience in scoping, planning and costing of research projects with industry partners
- Experience managing AI/data analytics projects with industry partners particularly developing project specifications and delivering to specification and to deadlines on multiple projects simultaneously
- Experience in European projects, both developing proposals and participating in the execution and coordination of projects.
- Experiencing building consortia and writing proposals using national funding instruments
- Excellent communication skills with demonstrated experience of writing technical papers, project reports and state of the art reviews
- Flexibility to travel when required to attend European events, meetings and conferences
- Candidates must demonstrate an awareness of equality, diversity and inclusion agenda.

#### Desirable

- Experience of working in industry in a data analytics/machine learning/AI role
- Experience in managing and processing large volumes of data
- Experience mentoring junior staff members

- Demonstrated knowledge of IP processes and experience of the protection of IP

## Further Information for Candidates

### About CeADAR

CeADAR is funded by Enterprise Ireland and IDA under its Technology Centres programme and is led and driven by a consortium of companies from the AI and analytics industry, both national and international.

### Supplementary information

The University:	<a href="http://www.ucd.ie/aboutucd.htm">http://www.ucd.ie/aboutucd.htm</a>
The College/Management Unit:	<a href="http://www.ucd.ie/science/">http://www.ucd.ie/science/</a>
The School/Programme Office/Unit:	<a href="http://www.ceadar.ie/">http://www.ceadar.ie/</a>
Enterprise Ireland Technology Centres:	<a href="http://www.enterprise-ireland.com/en/Research-Innovation/Companies/Collaborate-with-companies-research-institutes/Technology-Centres.html">http://www.enterprise-ireland.com/en/Research-Innovation/Companies/Collaborate-with-companies-research-institutes/Technology-Centres.html</a>

### Relocation Expenses

Will not apply

### Garda Vetting Required

No

### Informal Enquiries ONLY to:

Name:	Edward McDonnell
Title:	Centre Director
Email address:	<a href="mailto:edward.mcdonnell@ucd.ie">edward.mcdonnell@ucd.ie</a>
Telephone:	N/A

### ***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.

<p><b>Collective Agreement - Redundancy Payments to Public Servants:</b></p>	<p>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.</p>
<p><b>Declaration:</b></p>	<p>Applicants will be required to sign 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.</p>
<p><b>Superannuation and Retirement:</b></p>	<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 an 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><i>a. Pensionable Age</i> - The minimum age at which pension is payable is 66 in line with State Pension age changes.</p> <p><i>b. Retirement Age</i> - Scheme members must retire at the age of 70.</p> <p><i>c. Pension Abatement:</i></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</li> </ul> <p>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</p>	

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).

- **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.

**d. Prior Public Servant** - 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:

**e. Pension Accrual** - 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.

**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>.