Job Description

Position Summary

The School of Computer Science at UCD invites applications for a Post-Doctoral Researcher to join the UCD team in the ADAPT Research Centre to investigate the harnessing of speech for social inclusion. This project is part of the ADAPT Digital Content Transformation Strand.

Rather than focusing on accuracy and error rates, evaluation of speech recognition systems should be contextualized with respect to how well they perform in situations where the interlocutor is not the ‘typical’ native speaker (e.g. a senior citizen, a citizen with disabilities or a non-native speaker). Through publicly engaged research, data will be collected on how well existing speech technology is serving our citizens. A systematic evaluation of the output data produced by existing ASR systems and the interactions that arise when an ASR ‘converses’ with a range of users will enable a categorization of interaction issues and error patterns that need to be accounted for when developing applications which provide interfaces to essential services. This project will involve the development of a system which facilitates diagnostic evaluation of ASRs in a variety of interaction scenarios providing linguistic cues the augmentation of the ASR and building on the low-resource MT technologies being developed in other ADAPT projects.

ADAPT is the world-leading SFI research centre for AI Driven Digital Content Technology, coordinated by Trinity College Dublin and based within Dublin City University, University College Dublin, Technological University Dublin, Maynooth University, Munster Technological University, Athlone Institute of Technology, and the National University of Ireland Galway. ADAPT’s research vision is to pioneer new forms of proactive, scalable, and integrated AI-driven Digital Content Technology that empower individuals and society to engage in digital experiences with control, inclusion, and accountability with the long-term goal of a balanced digital society by 2030. ADAPT is pioneering new Human Centric AI techniques and technologies including personalisation, natural language processing, data analytics, intelligent machine translation human-computer interaction, as well as setting the standards for data governance, privacy and ethics for digital content.

ADAPT Digital Content Transformation Strand

From the algorithmic perspective, new machine learning techniques will both enable more users to engage meaningfully with the increasing volumes of content globally in a more measurably effective manner, while ensuring the widest linguistic and cultural inclusion. It will enhance effective, robust integrated machine learning algorithms needed to provide multimodal content experiences with new levels of accuracy, multilingualism and explainability.

The successful candidate will work under the direction of the Principal Investigator, helping to lead the research, setting a research agenda, engaging with industry projects and mentoring PhD candidates and students.

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
Further Information for Candidates

Equality, Diversity and Inclusion:

EDI in UCD

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.

UCD has received its second Athena SWAN Bronze institutional award in recognition of the University’s work towards gender equality. 
Schools will have the option of selecting UCD’s Athena SWAN institution level logo or their own School level logo. Unless otherwise specified, UCD’s Athena SWAN institution level logo will be inserted by HR. University College Dublin is proud of its designation as an Age-Friendly University as part of the AFU Global Network. The principles of an Age-Friendly University are: To encourage the participation of older adults in all the core activities of the university, including educational and research programmes.

UCD was awarded University of Sanctuary status in 2018, (UoS1) is an Irish initiative to encourage and celebrate the good practice of universities, colleges and other education institutes welcoming refugees, asylum seekers and other migrants into their university communities and fostering a culture of welcome and inclusion for all those seeking sanctuary.

Supplementary information

<table>
<thead>
<tr>
<th>The University:</th>
<th><a href="https://www.ucd.ie/">https://www.ucd.ie/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>UCD College of Science:</td>
<td><a href="http://www.ucd.ie/science/">http://www.ucd.ie/science/</a></td>
</tr>
<tr>
<td>UCD School of Computer Science:</td>
<td><a href="https://www.ucd.ie/cs/">https://www.ucd.ie/cs/</a></td>
</tr>
<tr>
<td>The ADAPT Research Centre:</td>
<td><a href="https://www.adaptcentre.ie">https://www.adaptcentre.ie</a></td>
</tr>
<tr>
<td>Other:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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 Relocation Policy

Garda Vetting required:

☒ NO
☐ YES  – Garda Vetting will be conducted for the recommended candidate(s) as part of the selection process for the post in accordance with the UCD Garda Vetting Policy

Informal Enquiries ONLY to:

<table>
<thead>
<tr>
<th>Name:</th>
<th>Prof. Julie Berndsen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Full Professor and Principal Investigator</td>
</tr>
<tr>
<td>Email address:</td>
<td><a href="mailto:julie.berndsen@ucd.ie">julie.berndsen@ucd.ie</a></td>
</tr>
</tbody>
</table>

© UCD Human Resources
| **Telephone:** | N/A |

---

### Eligibility to compete and certain restrictions on eligibility

#### Incentivised Scheme for Early Retirement (ISER):
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.

#### Department of Health and Children Circular (7/2010):
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 compete in this competition.

#### Collective Agreement - Redundancy Payments to Public Servants:
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.

#### Declaration:
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.
Superannuation and Retirement:

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”).

Key provisions attaching to membership of the Single Scheme are as follows:

a. **Pensionable Age** - The minimum age at which pension is payable is 66 in line with State Pension age changes.

b. **Retirement Age** - Scheme members must retire at the age of 70.

c. **Pension Abatement**:

   - 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.

   - 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).

   - 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](http://www.per.gov.ie/pensions).