



Applications are invited from suitably qualified candidates for the following position:

**Research Engineer**

**Analyst Programmer II**

**ADAPT Centre**

**Fixed Term Contract up to December 2022**

### **Dublin City University**

Dublin City University [www.DCU.ie](http://www.DCU.ie) is a young, ambitious and vibrant University, with a mission 'to transform lives and societies through education, research, innovation and engagement'. Known as Ireland's 'University of Enterprise and Transformation', it is committed to the development of talent, and the discovery and translation of knowledge that advances society and the economy. DCU is the Sunday Times Irish University of the Year 2021.

The University is based on three academic campuses in the Glasnevin-Drumcondra region of north Dublin. It currently has more than 18,000 students enrolled across five faculties – Science and Health, DCU Business School, Computing and Engineering, Humanities and Social Sciences and DCU Institute of Education. DCU is committed to excellence across all its activities. This is demonstrated by its world-class research initiatives, its cutting-edge approach to teaching and learning, its focus on creating a transformative student experience, and its positive social and economic impact. This exceptional commitment on the part of its staff and students has led to DCU's ranking among the top 2% of universities globally. It also consistently features in the world's Top 100 Young Universities (currently in QS Top 70 Under 50, Times Higher Top 150 Under 100).

DCU is placed 84th in the world, in the Times Higher Education University Impact Rankings – measuring higher education institutions' contributions towards the UN Sustainable Development Goals. Over the past decade, DCU has also been the leading Irish university in the area of technology transfer, as reflected by licensing of intellectual property.

### **ADAPT Centre**

The ADAPT Centre is Ireland's global centre of excellence for digital content technology. It combines the expertise of researchers at four universities (Trinity College Dublin, Dublin City University, University College Dublin, Technological University Dublin, Maynooth University and Cork Institute of Technology) with that of its industry partners to produce ground-breaking digital content innovations.

ADAPT brings together more than 200 researchers who collectively have won more than €100m in funding and have a strong track record of transferring world-leading research and innovations to more than 140 companies. ADAPT partners are successfully advancing the frontiers of content analysis, machine translation, personalisation, e-learning/education, media technologies and spoken

interaction, as well as driving global standards in content technologies. As part of the ADAPT Centre's remit, it will also be responsible for the ADAPT research programme as ADAPT is an evolution of the ADAPT Centre.

With €50m in new research funding from Science Foundation Ireland and industry and with ambitious targets for additional new funding under EU Horizon Europe and other programmes, ADAPT is seeking talented individuals to join its growing team. Our research and technologies will continue to help businesses in all sectors to achieve unprecedented engagement among customers, companies and communities.

### **Role Profile**

ADAPT's Irish Language Technology team wishes to recruit a Research Engineer on a fixed term contract to work on the Irish government funded National Relay Station (NRS) project, the focus of which is to improve data collection from public administration across Ireland. As part of this project, which is coordinated by Professor Andy Way at the ADAPT Centre, Dublin City University, the particular focus of the ADAPT Centre's work is the improvement of translation technology for the Irish language. The work of the Research Engineer is primarily focused on reconfiguring the current National Relay Station website and toolchains. They will also be involved in locating, analysing and preprocessing public administration data in order to create pipelines to produce Machine Translation (MT) systems.

The candidate should have strong programming skills. Scripting skills are particularly desirable e.g. Python, Perl, Java. Experience in a relevant area of Natural Language Processing (NLP) would be a distinct advantage. Reporting to the Principal Investigator, the successful candidate will work alongside a diverse team and will have exposure to all aspects of project lifecycle from requirements analysis to design, code, test and face-to-face demonstrations with a variety of partners and stakeholders.

This is an excellent opportunity for those with both an interest and eagerness for improving translation technology for the Irish language. The successful candidate will work within a small team and will be exposed to a wide range of NLP activities.

This will involve liaising closely with Irish government departments, public bodies and European Commission-funded organisations in order to locate, analyse and process language resources that can in turn improve translation services. These resources are linguistic in nature but will be processed and applied in digital applications.

As a university-based research centre, we also strongly support continuous professional development and education.

### **Duties and Responsibilities**

Please refer to the job description for a full list of duties and responsibilities associated with this role.

### **Qualifications and Experience**

Candidates appointed to this role must have a primary degree (NFQ Level 7) in Computer Science or a related discipline plus 4 years' appropriate experience. A degree in Linguistics would be considered if the candidate has sufficient programming skills.

In addition to the above, the successful candidate should possess a subset of the following skills and experience.

- Excellent knowledge of scripting languages: Python, Bash
- Solid comprehension of markup languages and data structures (e.g. XML)
- Experience with data analysis
- Excellent data management skills
- Proven ability to prioritise workload and work to established deadlines
- Flexible and adaptable in responding to stakeholder needs
- Excellent problem-solving abilities
- Strong team player who is able to take responsibility to contribute to the overall success of the team
- Excellent organizational skills, with the ability to coordinate and progress the tasks associated with own initiative
- Ability to provide training or advice to data holders (in Irish and/or English)

It is also desirable that candidates possess the following:

- Previous experience in an academic research environment is essential, and experience working in a multi-site research centre like ADAPT is highly desirable.
- Written and oral proficiency in English and Irish
- A postgraduate qualification in a related area
- Experience with translation technologies
- Comprehensive understanding of Machine Translation
- Experience with NLP

### **Mandatory Training**

The post holder will be required to undertake the following mandatory compliance training: Orientation, Health and Safety and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.

**Salary Scale:** Analyst Programmer II, Salary Scale €48,158.00 - €57,819.00

*\*Appointment will be commensurate with qualifications and experience and will be made on the appropriate point of the Senior Administration Assistant II salary scale, in line with current Government pay policy.*

**Closing Date:** Friday 6<sup>th</sup> of August 2021

**For more information on DCU and benefits please visit:** [Why work at DCU?](#)

**Informal Enquiries in relation to this role should be directed to:**

Dr. John Judge, Head of Research Development, ADAPT Centre,, Dublin City University

E-mail: [john.judge@adaptcentre.ie](mailto:john.judge@adaptcentre.ie)

Please do not send applications to this email address, instead apply as described below

**Application Procedure:**

Application forms are available from the DCU Current Vacancies website at

<http://www.dcu.ie/vacancies/current.shtml>

Applications should be submitted by e-mail with your completed application form to

[hr.applications@dcu.ie](mailto:hr.applications@dcu.ie)

**Please clearly state the role that you are applying for in your application and email subject line:**  
**Job Ref #RF1541 Research Engineer**

*Dublin City University is an equal opportunities employer. In line with the Employment Equality Acts 1998 – 2015, the University is committed to equality of treatment for all those who engage with its recruitment, selection and appointment processes. The University's Athena SWAN Bronze Award signifies the University's commitment to promoting gender equality and addressing any gender pay gaps. Information on a range of university policies aimed at creating a supportive and flexible work environment are available [in the DCU Policy Starter Packs](#)*