Post Title: Postdoctoral Researcher for Smart Healthy Spaces Project
Post Duration: Fixed-term specified purpose for up to 5 years (initial funding for 18 months)
Salary Scale: €45,322 p/a (IUA PD scale pt.1)
Location: TU Dublin
Reports to: Professor Dympna O’Sullivan
Closing Date: 29th January 2024
Apply: See below for details

Why ADAPT?

- **Contribute** to the ADAPT research agenda that pioneers and combines research in AI driven technologies: Natural Language Processing, Video/Text/Image/Speech processing, digital engagement & HCI, semantic modelling, personalisation, privacy & data governance.
- **Work** with our interdisciplinary team of leading experts from the complementary fields of, Social Sciences, Communications, Commerce/Fintech, Ethics, Law, Health, Environment and Sustainability.
- **Leverage our success.** ADAPT’s international research leadership, research excellence, industry collaborations, multidisciplinary outlook, strategic national position, and the opportunities arising from its scale, make our researchers highly sought after for collaboration and highly competitive in international funding programmes and has competitively won over 40 European Research Projects.

As an ADAPT researcher you will have access to a network of 85 global experts and over 250 staff, as well as a wide multidisciplinary ecosystem across 8 leading Irish universities. We can influence and inform your work, share our networks, and collaborate with you to increase your impact, and accelerate your career opportunities. Specifically, we offer:

- Exposure and free access within a multidisciplinary ecosystem across 8 leading Irish universities
- Opportunity to build your profile at international conferences and global events
- Fast-track your career through formalised training & development, expert one-on-one supervision and exposure to top AI specialists
Role overview
TU Dublin is seeking to recruit a highly motivated postdoctoral researcher in Computer Science, Electronic Engineering or related areas to research and develop a computerized toolkit to support people with dementia, together with their carers and healthcare professionals to self-manage their care at home. The toolkit will integrate individualized care plans with a computation model of care qualities for people with dementia and passive and on body sensors to deliver individualized care for persons with dementia. The successful candidate for this position will work on developing a sensor-based health monitoring system including passive and on body sensors for monitoring daily activities and care goals for dementia.

The successful candidate will be required to attend project meetings, contribute to project reports and disseminate the research through academic publications and presentations.

The work on this Research Programme is carried out by Postdoctoral Research Fellows and is a quasi-autonomous research activity. The mentoring Principal Investigator (PI) will advise the appointee on the conduct of their research which itself will be part of a research programme that the PI is responsible for. The intention is that during the employment of the appointee, they will avail of learning opportunities provided by TU Dublin and/or external agencies related to their particular research programme or research practice in general. At the completion of the Postdoctoral Research Fellowship period, the appointee will be expected to leave the University and continue their academic formation and development in a different research environment. At the completion of the mentored training period, the appointee should be in a position to take up employment as a fully autonomous researcher with another employer.

Duties & responsibilities

• Manage and conduct a specific programme of research and scholarship under the leadership of the Principal Investigator/Senior member of academic staff.

• Disseminate the outcomes of this research and scholarship including peer-reviewed academic publications of international standing.

• Assist in the further development of the research programme and in seeking and pursuing appropriate external funding.

• Where appointed to do so by TU Dublin, supervise or co-supervise with a full-time member of TU Dublin staff, graduate research students.

• Take responsibility for and manage and conduct administrative and management tasks associated with the programme of research.

• Engage in appropriate training and professional development opportunities as required by the Principal Investigator.

• Play an active role in knowledge and technology transfer activities. Manage research grants in accordance with TU Dublin Financial Regulations and the conditions of the funding body.

• Prepare and present research findings to colleagues for review purposes.
• Submit papers to appropriate journals and attend and present findings at appropriate conferences.
• Prepare progress reports on research for funding bodies as required.
• Seek new areas of research and prepare and submit research bids and proposals that will enhance the reputation of TU Dublin.
• Participate fully in the wider research and scholarly activities of the Research Centre/University and College/School.
• Teach on undergraduate and taught postgraduate programmes for a maximum of 100 hours in one academic year.
• The postholder will carry out any other duties within the scope, spirit and purpose of the job as requested by the PI or Director of the College/School.
• Comply with all TU Dublin policies and regulations, including those in relation to Research Ethics and Health and Safety.

Person specifications

The ideal candidate will demonstrate the appropriate mix of knowledge, experience, skills, talent and abilities as outlined below:

Knowledge and Experience

• A PhD in Electronic Engineering, Computer Science, the Internet of Things or equivalent (essential)
• A strong background in sensor engineering & the Internet of Things (essential)
• A strong technical background including strong programming skills (essential)
• Experience in designing and developing digital applications (essential)
• Evidence of a research profile and publication record within the requisite subject area (essential)
• Knowledge of research techniques and methodologies (essential)
• Experience in working with older adults (desirable)
• Experience in the field of digital health (desirable)

Skills, talents & abilities

• Commitment to high quality research (essential)
• Experience working on collaborative projects (desirable)
Further information for Postdoctoral Researcher

In the case of a 1st Postdoctoral Fellowship where the applicant may not have graduated yet, the successful applicant must, at the time of appointment, provide a letter from the appropriate graduate studies office confirming that the student has completed the programme including all the examination requirements and is just awaiting the formal graduation ceremony and the likely date on which that will take place.

Eligibility to compete
Eligibility to compete is open to candidates who are citizens of the European Economic Area (EEA) or Switzerland. The EEA comprises member states of the European Union along with Iceland, Liechtenstein and Norway. Other candidates may be eligible to compete subject to their having an appropriate work permit for the nature and duration of the position.

For Technological University Dublin staff, a secondment for the duration of the contract may be considered.

Terms and Conditions of Employment
A full statement of terms and conditions of employment will be given to the successful applicant in accordance with Terms of Employment (Information) Acts 1994 and 2001.

The main terms and conditions of employment are as follows:

- **Tenure**: The post will be offered on a Fixed-Term Specified Purpose Wholetime basis.
- **Location**: The successful candidate will initially be based in TU Dublin, Grangegorman but may be reassigned at the discretion of TU Dublin.
- **Salary**: The successful candidate will be appointed at point (01) of the Post Doctoral Research Salary Scale i.e. €45,322 gross per annum. Remuneration may be adjusted from time to time in line with Government pay policy. Incremental credit may apply in line with University policy.
- **Hours of work**: A 37-hour working week is in operation. This can be reviewed by collective agreement, with the Minister for Further and Higher Education, Research, Innovation and Science. Having regard to the nature of the work, attendance outside these hours may be required from time to time.
- **Probation**: The terms of the University’s Staff Induction policy and Probation procedure may apply.
- **Annual leave**: Annual Leave and Public Holidays shall be granted as per the Holidays (Employees) Act 1973 and Organisation of Working Time Act 1997. The annual leave entitlement for this post is 25 days per annum this is inclusive of the University closure days.
- **Retirement**: The appointee will not be entitled to join the Education Sector Superannuation Scheme; however the University has a PRSA in place. A PRSA is a straightforward pension product that was introduced in 2003 by the Pensions (Amendment) Act 2002. It is a contract between an individual and the authorised PRSA provider in the form of an investment account that can be used to save for retirement.
• **Sick Leave:** The terms of the TU Dublin Sick Leave policy will apply. Sick leave will be in accordance with arrangements authorised from time to time by the Minister for Further and Higher Education, Research, Innovation and Science.

**Other conditions:**

**Nature of the post**
The post will be on a Fixed-Term Specified Purpose Wholetime basis, subject to the terms of the provisions of the Technological Universities Act 2018.

**TU Dublin Benefits**

- Tax Saver travel scheme
- Cycle to Work scheme
- Employee Assistance Programme
- Access to VHI Group Insurance scheme rates
- Health and Well-Being programmes
- Fee support for further education
- Fee waiver for TU Dublin programmes
- Staff Development short-courses and seminars e.g. Women Leaders in Education, Project Management, Leadership Development Programme, Aurora Leadership Development for Women
- Mentoring Programmes
- Study and Exam leave
- Erasmus Staff Programme
- Sports facilities and discounted gym membership
- Optometry Centre – free eye tests and discounted glasses
- Facilitation of direct deductions from salary for Hospital Saturday Fund health plan/Income Continuance Plan/VHI Insurance Plan/Cornmarket financial advice plan
- Secondments
- Networking opportunities throughout the university
- Opportunities to attend conferences
- Irish Language Classes
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Application Process

Application Form
The University is committed to equality of opportunity and welcomes applications from all.

However, our employment monitoring data tells us that individuals from Black, Asian and Minority Ethnic (BAME) communities, people with a disability and those who identify as LGBT+ are currently under-represented at the University. As such, we particularly welcome applications from these individuals.

Applications will be accepted through the online application service at www.tudublin.ie/vacancies. A CV will be required in addition to the application form. All correspondence from the University regarding your application will be by email. Please ensure that the security filters on your email provider will accept emails from TU Dublin.

The vacancy ID for this position is: 031861

Closing Date
The closing date for applications is 5pm (Irish Time) on 29th January 2024. Late applications will not be accepted.

It is anticipated that interviews for this post will take place in Early March 2024. The interview assessment will be 40 minutes in length and will include a presentation of 8 minutes duration. The topic of this presentation will be as follows:

A digital health solution I have developed as part of previous research.

Contact information
For further information about this post please contact: Dympna O’Sullivan, dympna.osullivan@tudublin.ie

For guidance on completing your application please follow steps 1-10 as outlined in the Guidance on completing the Application Form section on the TU Dublin job advert. This job advert can be found via www.tudublin.ie/vacancies, searching for job ID 031861 and downloading the Final Candidate Brief document.

For queries regarding the application process, please contact Shauna Fitzgerald at (01) 220 5403 between 9.30 and 5.00pm, Monday to Friday or email Shauna.fitzgerald@TUDublin.ie

Further Information for Candidates
Canvassing will automatically disqualify.

You are also advised that you can only submit one application per competition. Should you have any issues with your submission, please contact us.
TU Dublin is an equal opportunities employer and is committed to the employment policies, procedures and practices which do not discriminate on grounds such as gender, civil status, family status, age, disability, race, religious belief, sexual orientation or membership of the travelling community.

In accordance with TU Dublin’s Protection of Children and Vulnerable Adults policy, all candidates applying for a post will be required to disclose previous convictions or pending prosecutions on the Application Form. Candidates applying for a position in a Designated Area will be required to undergo Garda Vetting as part of the selection process. Decisions regarding appointments may be made by University Management based on the candidate’s declaration.

The University may require candidates to undertake a pre-employment medical with an Occupational Health Physician. Normally pre-employment medicals are required for positions with a duration of one year or more. The primary purpose of the pre-employment medical is to assess an individual’s fitness for a particular position or occupation with regard to the requirements for that post. TU Dublin will have regard to its obligations under the Disability policy to make reasonable accommodation for a candidate.

A conditional offer of employment may be made to the successful candidate(s) subject to submission and verification of required evidence of qualifications, professional experience, references, pre-employment medical, Garda Vetting as appropriate. No appointment will be made unless Human Resources verify a candidate’s academic qualifications and/or evidence of professional experience required for the role. In this regard, where a qualification and/or professional experience is an essential criterion, candidates will be required to provide original academic transcripts, parchment and original statements from previous employers. The cost incurred by an applicant for requesting an academic transcript will not be covered by the University. The University reserves the right to verify documentation with the relevant bodies/employers.

Appointees are also required to furnish:
- as evidence of age, a certified extract from a Public Register of Birth or passport
- Proof of PPS Number (e.g. social services card)

Appeals:

If a candidate wishes to appeal either a shortlisting decision or a Selection Board decision, they must indicate their intention to do so by submitting an email to the Resourcing Manager (referred to as HR Management throughout this appeals process) within 2 working days of the date upon which written notification to the unsuccessful candidate is issued. The email notice of intent must be followed by the submission of the Appeal Form to HR Management. The completed Appeal Form must be submitted no later than 5 working days of the date upon which written notification to the unsuccessful candidate is issued or up to 3 working days after the submission of the email notice of intent. Further details in relation to the University’s Recruitment, Selection & Appointment Policy, including details in relation to the Appeals Procedure, can be found at the following link: [Recruitment, Selection and Appointment Policy](#)
About the ADAPT Centre
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, Technological University of the Shannon, and the University of 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.

Our Research Vision
Governments and civil society are starting to recognise the need for urgent and concerted action to address the societal impact of the accelerating pace of digital content technologies and the AI techniques that underpin them. ADAPT provides an ambitious, ground-breaking, integrated research programme that assembles three interlocking Strands that together are capable of addressing this challenge. Each of these complementary and reinforcing research strands takes one of the different perspectives on the provision of personalised, immersive, multimodal digital engagement, i.e. the individual’s experience and control of the engagement, the algorithms underlying digital content processing, and the balanced governance by enterprise and societal stakeholders.

Digitally Enhanced Engagement Strand
From the individual perspective, research within this Strand will deliver proactive agency techniques that sense, understand and proactively serve the needs of individual users to deliver relevant, contextualised and immersive multimodal experiences, which also offer them meaningful control over the machine agency delivering those experiences.

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.

Transparent Digital Governance Strand
From the enterprise and societal perspective, new structured knowledge frameworks and associated practices for AI data governance will be required to balance the needs and values of individuals, organisations and society when it comes to rich digital experiences. This requires the advancement of research in the areas of data ethics, data quality, data protection, data value, data integration, and multi-stakeholder governance models.
Diversity

ADAPT is committed to achieving better diversity and gender representation at all levels of the organisation, across leadership, academic, operations, research staff and studentship levels. ADAPT is committed to the continued development of employment policies, procedures and practices that promote gender equality. On that basis, we encourage and welcome talented people from all backgrounds to join ADAPT.

TU Dublin – A New University for A Changing Ireland

Deeply embedded in our region, TU Dublin has campuses in Dublin City Centre, in Blanchardstown and in Tallaght, and, through our major infrastructural development plan, we are currently investing over €500 million in new, state-of-the-art, technology-enabled facilities to enhance our students' experience.

A leader in STEM disciplines, TU Dublin also supports the largest cohorts of students of business, media, culinary arts, and the creative and performing arts. We are passionate about life-long learning and, as the largest provider of part-time education, we make an important contribution to the economic life of Ireland, enabling capacity building for the future.

Our distinguished researchers and innovators are pioneers in science and technology discovery; play active roles in informing policy and standards; and contribute to the creative life of Ireland. Our award-winning technology transfer and business incubation activity have delivered over 400 new sustainable businesses with an economic value of almost €700 million.

With an international outlook, we welcome students and staff from around the world while our strong international partnerships provide opportunities for student and staff exchange programmes, major cross-collaboration research projects, and employment opportunities. We are immensely proud of our network of 100,000+ TU Dublin graduates who are making their careers here in Ireland and in 70 countries worldwide.

For more information on TU Dublin, please refer to the Final Candidate brief document, which can be found via www.tudublin.ie/vacancies, searching for job ID 031861 and downloading the Final Candidate Brief document.