

From architecture to implementation be part of a groundbreaking European digital medical research project

Post Title: Software / Android Developer

Post Duration: Until 30 Nov 2025

Location: ADAPT Centre, Trinity College Dublin

Reports to: Chief Technology Officer

Precision ALS is a unique programme that brings together Clinicians, Computer Scientists, Information Engineers, Technologists, and Data Scientists. Precision ALS will provide an innovative and interactive platform for all clinical research in ALS across Europe, that will then harness artificial intelligence (AI) to analyse large amounts of data.

Precision ALS is a green field project with the opportunity to improve engineering and development knowledge throughout the project lifecycle. On completion, **Precision ALS** will be a first-in-kind modular transferable pan-European ICT framework for ALS that can be easily adapted to other diseases that face similar precision medicine-related challenges.

About the role

- You will become a member of a small technical team of 7 which are part of a project team of 35+ colleagues.
- You can assist to develop a multi-faceted, production grade, health research software system using a variety of modern languages, technologies, and frameworks.
- Execute the full software development lifecycle within an agile team, including:
 - Iteratively gather requirements from users and other stakeholders.
 - Help prioritize requirements and plan development sprints.
 - Develop high quality, efficient and flexible code with automated testing.
 - Prepare for system deployment using modern VM and container-based approaches for both on-premises and cloud deployment.
- Improve your development and related skills on challenging high-impact project while having access to a wide range of training & development materials.
- Participate alongside leading experts in exciting project activities and events to further research in ALS. In the future this model will be used as a blueprint for other diseases.
- Contribute to the development of precision medicine-based approach towards new drug development that will have many benefits including better clinical outcomes for patients and reducing the economic cost of these diseases.
- We have a diverse and high-calibre network within our organisation and are connected to Trinity College and other organisations. You will not be boxed in to one area within this company because we need knowledge workers that are polymath in their interests.

Desirable

Knowledge of and/or keen interest to improve your skills in one or more of the following areas:

- Mix of Object Orientated Programming (OOP) and Functional Programming (FP)
- Full Stack Development and Engineering Experience

- Front end development with focus on design and optimizing the user experience, using Kotlin for Android development and/or using React, SVG and/or D3 for Web development.
- Back-end REST-style API development, particularly in Java and/or Python.
- Scalable file / object storage technologies such as ZFS, S3 and/or CEPH and similar data lake approaches.
- Modelling of complex heterogenous datasets for structured storage within relational (e.g. Postgres, MySQL/MariaDB) and/or non-relational (NoSQL) databases (e.g. Mongo, Neo4j).
- Information security including authentication, authorization, access control, encryption, and key management techniques.
- Knowledge of health information modelling and/or interoperability standards, such as ISO13606, SNOMED CT, ICD11, OpenEHR, or HL7 (2,3, FHIR).

Attributes

- Initiative-taking.
- Ability to learn quickly.
- Attention to detail.
- Collaborator.
- Strong communicator.
- Adaptable to changing requirements.

Salary & benefits

Salary Scale: €41,209 - €53,091

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|--|---------------------------------|
| ● Competitive salary | ● Bike to Work Scheme |
| ● Flexible working arrangements | ● Employee Assistance Programme |
| ● Computer and peripherals of your choice | ● Sports Facilities |
| ● A fast-paced environment with impactful work | ● 22 days of Annual Leave |
| ● Pension | ● Paid Sick Leave |
| ● Day Nursery | ● Training & Development |
| ● Travel Pass Scheme | ● Staff Discounts |

Minimum qualifications

BSc. of Computer Science or equivalent working experience

Application Process

In order to assist the selection process, applicants should submit a Curriculum Vitae and a Cover Letter (1x A4 page) before 5pm on the 23rd March, that specifically address the following points in their application via the following link

<https://forms.gle/kyn55pgYnhgJxePE8>

Applicants Should:

- clearly address this experience and how they obtained their knowledge in their application.
- give examples of how their previous developer experience equips them to deliver the role on Precision ALS.
- Indicate which of the 'desirable' areas outlined above are most relevant for them.

- Illustrate, through experience, their ability to work on their own initiative and resolve problems.

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 researchers have signed 43 collaborative research projects, 52 licence agreements and oversee 16 active commercialisation funds and 52 commercialisation awards. ADAPT has won 40 competitive EU research projects and obtained €18.5 million in non-exchequer non-commercial funding. Additionally, six spinout companies have been formed. ADAPT's researchers have produced over 1,500 journal and conference publications and nearly 100 PhD students have been trained.
- **Develop** skills in a fast-paced environment focused on cutting-edge technology innovation

As an ADAPT researcher you will have access to a network of 85 global experts and over 250 staff as well as a wide multi-disciplinary 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 multi-disciplinary 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.

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.

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, 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.