

Post Title: Senior Research Engineer, Beyond 2022/The Virtual Record Treasury of Ireland

Post Duration Specific Purpose until 31st December 2026

Salary Scale: €59,227 - €64,537

Location: Trinity College Dublin

Reports to: PI Beyond 2022

Closing Date: 31st March 2023

Apply: <https://forms.gle/zTG8X2cJGrnLhGWz5>

Research project/Challenge

An **exciting** role has emerged to join the Beyond 2022 Project at the ADAPT Centre, Trinity College working with historians, conservators, archivists and technologists. The **Senior Research Engineer** is the technological lead for Beyond 2022, the multidisciplinary research programme behind the Virtual Record Treasury of Ireland. This is a multifaceted role offering an exciting position within a national legacy project to mark the Decade of Centenaries.

The successful applicant will work with a team guiding and integrating the development of the core technological components of the Beyond 2022 Project. This requires not just an understanding of the technologies being utilised, but also a willingness to question and lead in their integration. The successful candidate will oversee the development, optimisation and enhancement of a variety of components which comprise the Virtual Treasury's data processing pipeline from physical paper to rich, well structured, publicly available, online data.

A key component of Beyond 2022 is the website www.virtualtreasury.ie. The SRE will be expected to work with third party suppliers to continue the rollout of the Virtual Record Treasury. The candidate will ensure the technological and data outputs can be integrated into the website and that these meet the overall public engagement goals of the project.

Duties & Responsibilities

- Understand, interpret and communicate software requirements expressed by colleagues, including Historians and Archivists, and deliver solutions which meet expectations.
- Work effectively with other Beyond 2022 computer science researchers to achieve the ambitious goals of the project.
- Work with external agencies to define requirements and troubleshoot issues.
- Manage and maintain live deployments of Beyond 2022 web services.

- Have the ability to adapt quickly to new technologies as the project continues.
- Implement and develop unit tests of individual software components to ensure functionality and robustness of software applications.
- Document all work to ensure code is easily understood by peers.

Minimum qualifications:

Applicants must have a primary degree in Computer Science or a related discipline plus four years relevant experience.

Knowledge & Experience

- Excellent database management skills: SQL, Graphing Databases
- Excellent knowledge of: Java, SpringBoot, Tomcat, Apache2
- Excellent knowledge of scripting languages (Python and Bash)
- Knowledge of web application development and security
- Experience with data wrangling, text search engines, data analysis and Debian Linux would be a distinct advantage
- Experience in the design and/or delivery of **digital humanities** projects would also be a distinct advantage.

Skills

- As this is a multidisciplinary Digital Humanities project, excellent written and oral proficiency in English is required with the ability to understand and analyze stakeholder requests and relay solutions in a clear and concise manner, both to a specialist audience and to a wider public.
- Proven aptitude for Programming, System Analysis and Design
- Proven ability to prioritise workload and work to deadlines
- Flexibility and adaptability in responding to stakeholder needs
- Experience in releasing code to live production environments
- Strong team player who is able to take responsibility to contribute to the overall success of the team
- Enthusiastic and structured approach to research and development
- Excellent problem-solving abilities
- Desire to learn about new products and technologies, and to keep abreast of emerging product, technical and research developments
- Understanding and appreciation of website and interface design
- Ability to question, sense-check decisions and to lead.

Benefits

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

Application Process

- Cover Letter & CV
 - In order to assist the selection process, applicants should submit a full Curriculum Vitae, and a Cover Letter (1 x A4 page) that specifically addresses how the candidate's skills and experience align with the criteria set out above.

Please Note

- Applicants who do not address the application requirements above in their cover letter will not be considered at the short list stage.
- Applicants should note that the interview process for this appointment may include the delivery of a presentation and may include a test of practical skills.

Informal enquiries about this post should be made by e-mail to: Mr Theo Little (theo.little@adaptcentre.ie).

Applications will only be accepted via the following link: <https://forms.gle/zTG8X2cJGrnLhGWz5>

Background to Beyond 2022 Project

June 30th, 2022, marked the centenary of the terrible explosion and fire at the Four Courts, Dublin, which destroyed the Public Record Office of Ireland (PROI) and, with it, seven centuries of Ireland's collective memories. While incomparable with the loss of human life, the destruction of the Record Treasury at the PROI was one of the great tragedies of the Civil War.

Beyond 2022 | Virtual Record Treasury of Ireland is an exciting all-island and international research programme to recreate digitally this lost national treasure. Through its innovative and experimental combination of historical research, archival discovery and technical innovation, *Beyond 2022* offers a lasting and meaningful legacy from the Decade of Centenaries, democratising access to invaluable

records and illuminating seven centuries of Irish history.

On 30 June 2022, Beyond 2022 launched the Virtual Record Treasury of Ireland (www.virtualtreasury.ie) — an open-access, virtual reconstruction of the Record Treasury destroyed at the PROI in 1922. Significantly, the Virtual Record Treasury provides an innovative enabling framework for connecting archival collections worldwide and rediscovering our collective national memories.

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.

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.

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.