



**Trinity College Dublin**  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin

## Post Specification

<b>Post Title:</b>	Research Assistant
<b>Post Status:</b>	Specific Purpose Contract - Full-time or Part-time
<b>Research Group / Department / School:</b>	School of Computer Science and Statistics, Trinity College Dublin, the University of Dublin
<b>Location:</b>	School of Computer Science and Statistics, Trinity College Dublin, the University of Dublin College Green, Dublin 2, Ireland
<b>Reports to:</b>	Dr. Anthony Ventresque
<b>Salary:</b>	Appointment will be made on the Research Ireland Salary Scale for Research Assistants at a point in line with Government Pay Policy [€34,130 to €44,311 per annum]. The specific salary point will be determined by qualifications and experience, and in accordance with RI and TCD guidelines.
<b>Hours of Work:</b>	39 hours per week (if full-time)
<b>Closing Date:</b>	12 Noon (GMT), Tuesday 19 <sup>th</sup> May 2026

## Post Summary

This position offers an exciting opportunity to join the Complex Software Lab in the School of Computer Science and Statistics at Trinity College Dublin, working on a research project focused on software quality, testing, and evaluation of modern AI-supported systems.

The successful candidate will contribute to research on testing and evaluation techniques for AI-assisted software, with particular emphasis on benchmarking, automated analysis, and empirical validation of system behaviour. The role involves hands-on experimentation, implementation of evaluation pipelines, and analysis of system outputs, supporting high-quality research outcomes.

This role is particularly well suited to candidates with a strong background in machine learning, NLP/LLMs, or AI evaluation, and an interest in rigorous benchmarking and reproducible experimentation.

### **Standard Duties and Responsibilities of the Post**

- Design, implement, and maintain evaluation and benchmarking pipelines for AI-supported software systems.
- Conduct empirical analyses of system behaviour, including failure modes, robustness issues, and quality attributes.
- Assist with the development of automated testing or validation tools for software systems that include AI components.
- Analyse experimental results and prepare clear, well-documented reports and visualisations.
- Maintain clean, reproducible research artefacts, including datasets, evaluation scripts, and experiment configurations.
- Collaborate closely with academic researchers to refine evaluation methodologies and experimental design.
- Contribute to technical reports, research papers, and project deliverables, where appropriate.
- Participate in regular project meetings and provide updates on experimental progress.

### **Funding Information**

This project is funded by RI Lero under which the successful candidate's position will be supported.

## **Person Specification**

### **Qualifications**

The successful candidate must hold at least a Bachelor's degree (or equivalent) in a relevant field such as Computer Science, Artificial Intelligence, Machine Learning, Data Science, or a cognate discipline. A Master's degree or PhD-level research experience is desirable.

### **Knowledge & Experience (Essential & Desirable)**

#### **Essential**

- Strong background in machine learning, AI systems, or natural language processing.
- Experience designing or working with benchmarks, evaluations, or empirical experiments.
- Strong programming skills, particularly in Python.
- Experience working with modern ML tooling (e.g. PyTorch, HuggingFace, NumPy, Pandas).
- Ability to analyse experimental results critically and communicate findings clearly.

#### **Desirable**

- Experience evaluating large language models (LLMs) or vision-language models (VLMs).
- Familiarity with benchmark design, dataset creation, or evaluation frameworks.
- Experience with software testing, quality assurance, or validation methodologies.
- Experience working with research codebases, version control, and reproducible workflows.
- Prior contribution to open-source projects or academic research outputs.

#### **Skills & Competencies**

- Strong analytical and problem-solving skills.
- High attention to detail in experimental setup and evaluation.
- Ability to work independently while contributing effectively within a research team.
- Excellent written and verbal communication skills.
- Strong organisational skills when working with multiple experiments or datasets.

## Application Procedure

Applicants should submit a full Curriculum Vitae to include the names and contact details of 2 referees (including email addresses), to

Anthony Ventresque

Anthony.ventresque@tcd.ie

## Further Information for Applicants

URL Link to Area	<a href="http://www.tcd.ie">www.tcd.ie</a>
URL Link to Human Resources	<a href="https://www.tcd.ie/hr/">https://www.tcd.ie/hr/</a>

## Trinity College Dublin, the University of Dublin

Trinity is Ireland's leading university and is ranked 87 in the World by the QS World University Ranking 2025. Founded in 1592, the University is steeped in history with a reputation for excellence in education, research and innovation.

Located on an iconic campus in the heart of Dublin's city centre, Trinity has 18,000 undergraduate and postgraduate students across our three faculties – Arts, Humanities, and Social Sciences; Engineering, Mathematics and Science; and Health Sciences.

Trinity is ranked as the Trinity is the 31st most international university in the world - Times Higher Education 2024 and has students and staff from over 120 countries.

The pursuit of excellence through research and scholarship is at the heart of a Trinity education, and our researchers have an outstanding publication record and strong record of grant success. Trinity has developed [19 broad-based multidisciplinary research themes](#) that cut across disciplines and facilitate world-leading research and collaboration within the University and with colleagues around the world. Trinity is also home to 5 leading flagship research institutes:

- Trinity Biomedical Sciences Institute (TBSI)

- Trinity College Institute of Neuroscience (TCIN)
- Trinity Translational Medical Institute (TTMI)
- Trinity Long Room Hub Arts and Humanities Research Institute (TLRH)
- Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN)

Trinity is the top-ranked European university for producing entrepreneurs for the past five successive years and Europe's only representative in the world's top-50 universities (Pitchbook Universities Report).

Trinity is home to the famous Old Library and to the historic Book of Kells as well as other internationally significant holdings in manuscripts, maps and early printed material. The Trinity Library is a legal deposit library, granting the University the right to claim a copy of every book published in Ireland and the UK. At present, the Library's holdings span approximately 6.5 million printed items, 400,000 e-books and 150,000 e-journals.

With over 120,000 alumni, Trinity's tradition of independent intellectual inquiry has produced some of the world's finest, most original minds including the writers Oscar Wilde and Samuel Beckett (Nobel laureates), the mathematician William Rowan Hamilton and the physicist Ernest Walton (Nobel laureate), the political thinker Edmund Burke, and the former President of Ireland Mary Robinson. This tradition finds expression today in a campus culture of scholarship, innovation, creativity, entrepreneurship and dedication to societal reform.

## **Rankings**

Trinity College Dublin is the top ranked university in Ireland.

- Trinity College Dublin is Ireland's No.1 University - QS World University Ranking 2025; Times Higher Education World University Rankings 2024
- Trinity is ranked 87 in the World by the QS World University Ranking 2025
- Trinity is ranked 139 in the World by the Times Higher Education World University Rankings 2025

Full details are available at: [www.tcd.ie/research/about/rankings](http://www.tcd.ie/research/about/rankings).

### **The Selection Process in Trinity**

The Selection Committee (Interview Panel) may include members of the Academic and Administrative community together with External Assessor(s) who are expert in the area. Applications will be acknowledged by email. If you do not receive confirmation of receipt within 1 day of submitting your application online, please contact the named Recruitment Partner on the job specification immediately and prior to the closing date/time.

Given the degree of co-ordination and planning to have a Selection Committee available on the specified date, the University regrets that it may not be in a position to offer alternate selection dates. Where candidates are unavailable, reserves may be drawn from a shortlist. Outcomes of interviews are notified in writing to candidates and are issued no later than 5 working days following the selection day.

In some instances the Selection Committee may avail of telephone or video conferencing. The University's selection methods may consist of any or all of the following: Interviews, Presentations, Psychometric Testing, References and Situational Exercises.

It is the policy of the University to conduct pre-employment medical screening/full pre-employment medicals. Information supplied by candidates in their application (Cover Letter and CV) will be used to shortlist for interview.

Applications from non-EEA citizens are welcomed. However, eligibility is determined by the Department of Business, Enterprise and Innovation and further information on the Highly Skills Eligible Occupations List is set out in Schedule 3 of the Regulations

[https://dbe.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-](https://dbe.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-Permits/Employment-Permit-Eligibility/Highly-Skilled-Eligible-Occupations-List/)

[Permits/Employment-Permit-Eligibility/Highly-Skilled-Eligible-Occupations-List/](https://dbe.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-Permits/Employment-Permit-Eligibility/Highly-Skilled-Eligible-Occupations-List/) and the

Ineligible Categories of Employment are set out in Schedule 4 of the Regulations

[https://dbe.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-](https://dbe.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-Permits/Employment-Permit-Eligibility/Highly-Skilled-Eligible-Occupations-List/)

[Permits/Employment-Permit-Eligibility/Ineligible-Categories-of-Employment/](#) . Non-EEA

candidates should note that the onus is on them to secure a visa to travel to Ireland prior to interview. Non-EEA candidates should also be aware that even if successful at interview, an appointment to the post is contingent on the securing of an employment permit.

### **Equal Opportunities Policy**

Trinity is an equal opportunities employer and is committed to 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. On that basis we encourage and welcome talented people from all backgrounds to join our staff community. Trinity's Diversity Statement can be viewed in full at <https://www.tcd.ie/diversity-inclusion/diversity-statement>.

### **Pension Entitlements**

This is a pensionable position and the provisions of the Public Service Superannuation (Miscellaneous Provisions) Act 2004 will apply in relation to retirement age for pension purposes. Details of the relevant Pension Scheme will be provided to the successful applicant.

Applicants should note that they will be required to complete a Pre-Employment Declaration to confirm whether or not they have previously availed of an Irish Public Service Scheme of incentivised early retirement or enhanced redundancy payment. Applicants will also be required to declare any entitlements to a Public Service pension benefit (in payment or preserved) from any other Irish Public Service employment.

Applicants formerly employed by the Irish Public Service that may previously have availed of an Irish Public Service Scheme of Incentivised early retirement or enhanced redundancy payment should ensure that they are not precluded from re-engagement in the Irish Public Service under the terms of such Schemes. Such queries should be directed to an applicant's former Irish Public Service Employer in the first instance.

## Application Procedure

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**Anthony Ventresque**

**[Anthony.ventresque@tcd.ie](mailto:Anthony.ventresque@tcd.ie)**



**UNIVERSITY  
VACANCIES IRELAND**  
[universityvacancies.com](http://universityvacancies.com)

