

## Post Specification

<b>Post Title:</b>	<b>Research Fellow (Computer Science)</b>
<b>Post Status:</b>	Specific Purpose Contract – Full-time
<b>Research Group / Department / School:</b>	Graphics and Visualization Discipline, School of Computer Science and Statistics, Trinity College Dublin, the University of Dublin
<b>Location:</b>	Stack B, Custom's House Quay, Trinity College Dublin, the University of Dublin College Green, Dublin 2, Ireland
<b>Reports to:</b>	Dr. John Dingliana
<b>Salary:</b>	Salary will be based on the IUA Researcher Salary Scales in line with Government Pay Policy. Starting salary will be between EUR 42,033 to EUR 49,790, commensurate with the researcher's previous experience, but no higher than Point1 on the PD2 Post-doctoral Researcher scale.
<b>Hours of Work:</b>	Typically, 9:00am to 5:00pm Mon-Fri. Some work may fall outside these hours if necessitated by time-limited requirements of the project. Flexible hours supported where not in contravention of Project Requirements
<b>Closing Date:</b>	12 Noon (GMT), 6 <sup>th</sup> April 2023

## Post Summary

A postdoctoral researcher position is available with the Graphics and Vision Lab in the School of Computer Science and Statistics (SCSS), Trinity College Dublin (TCD) to work on a research project funded by Horizon Europe. The project, TRANSMIXR, is a collaborative EU project involving 20 partners from industry and academia with the goal of creating novel human-centric tools for remote content production and consumption via social virtual reality.

**Start date:** April 16<sup>th</sup> or as soon as possible

## Standard Duties and Responsibilities of the Post

TCD's role in the TRANSMIXR project, and a major part of the postdoctoral researcher's duties, will involve the integration of **Volumetric Video** to Extended Reality (XR) Creation and Experience environments of the future.

The postdoctoral researcher will work closely in collaboration with colleagues in TCD and the multi-institutional project consortium, contributing technical effort towards the completion of several Work Packages of the TRANSMIXR project listed below.

- EXTENDED REALITY MEDIA COLABORATIVE CREATION ENVIRONMENT:
  - contribute to development of an immersive creation environment that will enable story creators to collaborate and combine content to produce novel Extended Reality (XR) media experiences.
  - evaluate the utility of a range of XR media description formats that describe and facilitate the modelling of novel XR experiences.
  - develop and evaluate hardware and software components required to facilitate live studio content creation, focussing on 3D capture, from multiple sources, of storytellers, journalists, or performers
- EXTENDED REALITY MEDIA EXPERIENCE ENVIRONMENT:
  - leverage a range of technologies to enable active immersive content consumption experiences for end users, facilitate multimodal and naturalistic *user interactions* with physical and virtual objects, and realisation of shared social XR experiences.

- evaluate and define technology to facilitate user experience data capture in the lab and in the wild, building on knowledge, use case, user and technical requirements established in other work packages of the project to deliver data driven models of user experience.
- DEPLOYMENT OF PILOTS: collaborate with use case partners and technology providers to ensure compatibility and technical interoperability during development.
- COMMUNICATION AND DISSEMINATION: participate in publishing results and increasing the visibility of the project among targeted communities and the public.

## **Funding Information**

Horizon Europe

## **Person Specification**

### ***Qualifications***

PhD in Computer Science or cognate discipline with some background in Digital Media, Augmented/Virtual Reality, Interactive Computer Graphics, or Animation.

OR

PhD in Digital Media or cognate discipline, with a strong technical background.

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

- *Essential:* at least 4 years of experience post-PhD in academia or industry, working in the areas of Augmented and Virtual Reality technologies and Interactive Computer Graphics.
- *Essential:* experience and ability to develop graphical applications using Unity 3D, Unreal Engine or equivalent 3D graphics engine or development platform
- *Essential:* experience and high level of competence in programming with C#, C, C++ or similar object-oriented programming language
- *Essential:* some awareness and understanding of *volumetric video*

- *Desirable:* experience in the implementation of XR experiences involving volumetric video, or in studio set-up and capture protocols for volumetric video content creation
- *Desirable:* to have prior high-impact publications in international journals and conferences.

### **Skills & Competencies**

- Commitment to high quality research
- Ability to work collaboratively and as part of a team
- Effective written and verbal communication skills with ability to present complex information effectively to a range of audiences
- Good organisational skills
- Knowledge transfer skills

### **Application Procedure**

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

John Dingliana

John.Dingliana@tcd.ie

Applicants will be contacted within two weeks of the closing date listed above.

### **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 98th in the world (QS World University Rankings 2023). 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 17th most international university in the world (Times Higher Education Rankings 2020) 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 1st in Europe for Producing Entrepreneurs for the 7th year in a row and Europe's only representative in the world's top-50 universities (Pitchbook 2021-2022).

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. Using the QS methodology we are ranked 98<sup>th</sup> in the world and using the Times Higher Education World University Ranking methodology we are 146<sup>th</sup> in the World.

- Trinity College Dublin is Ireland's No.1 University (QS World University Ranking 2023, Times Higher Education Rankings 2022)
- Trinity is ranked 98<sup>th</sup> in the World (QS World University Ranking 2023)
- Trinity is ranked No.1 in Europe for Producing Entrepreneurs for the 7<sup>th</sup> year in a row Pitchbook 2021-2022

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://dbei.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://dbei.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-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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**UNIVERSITY  
VACANCIES IRELAND**  
universityvacancies.com

