



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

Post Specification

Post Title:	Research Fellow in LA-ICP-MS
Post Status:	c. Three Year Position (to 31 st December 2026)
Research Group/School	Discipline of Geology, School of Natural Sciences, Trinity College Dublin, the University of Dublin
Location:	School of Natural Sciences, Trinity College Dublin, the University of Dublin, College Green, Dublin 2, Ireland
Reports to:	Assoc. Prof. Emma Tomlinson
Salary:	Appointment will be made on the Irish Universities Association (IUA) Teaching Fellow salary scale Code 175 (point 1 €42,783)
Hours of Work	Full time (40 hrs per week).
Closing Date:	17.00 CEST, 01 st February 2024 or until filled

Post Summary

Applications are invited for a full time Research Fellow in LA-ICP-MS at the Ireland Research Centre in Applied Geosciences (iCRAG). The role includes research and administrative duties. Research includes development of standards and supporting iCRAG users in LA-ICP-MS data collection so contributing to the outcome of these projects. Administration would primarily involve assisting lab users in their analyses and data reduction, regular maintenance and equipment servicing for the lab. The candidate will be based at the iCRAG Raw Materials Characterization Laboratory, Trinity Enterprise Centre, Trinity College Dublin (TCD).

Background to the Post

iCRAG is funded by Science Foundation Ireland and brings together research institutions from across Ireland to undertake work in the areas of Earth System Change, Earth Resources and Earth Science in Society. This role sits in the Geochemistry platform and supports work being undertaken in the various research challenges with a particular focus on Earth Resources.

The Department of Geology at TCD is a collegial mid-sized department with a strong emphasis on research and teaching in the geosciences. This especially includes work in the field and an array of analytical laboratories.

Standard Duties and Responsibilities of the Post

Main responsibilities

- Undertake LA-ICP-MS data collection, data reduction and quality control procedures
- Train and assist iCRAG users and so contribute to the outputs of those projects
- Undertake regular maintenance of the iCRAG LA-ICP-MS lab equipment

Research

- Undertake to characterise natural sulphides and identify suitable standards for a range of elements (including critical metals)
- Develop multi-element standards for carbon matrices
- The appointee will have opportunities to develop their own research and so contribute to the overall research profile within iCRAG and TCD, thus enabling them to build a career in academia.
- Publish research in international peer reviewed journals
- Present research at national and international conferences

Person Specification

Qualifications

The candidate must have been awarded a Ph.D. in geochemistry, geology, mineralogy or a related discipline at the time of appointment.

Knowledge & Experience

- Experience of working in a laboratory setting (essential).
- Previous experience of LA-ICP-MS analysis is essential, and experience as an independent user is highly desirable.
- Demonstrate ability to undertake organisational skills responsibilities necessary to coordinate needs of different lab users
- Evidence of productivity through research outputs and peer reviewed scientific publications.

Skills & Competencies

- Well-developed written and verbal communication and presentation skills and interpersonal skills.
- Planning and organisational skills.
- Prior success working in a team and/or with collaborators and performing multiple tasks.
- Capability and confidence to take ownership of problems and seek long term solutions.
- Commitment to own professional development.

Further information

Informal enquiries concerning the post should be addressed to Dr Emma Tomlinson (tomlinse@tcd.ie).

URL Link to Area	www.tcd.ie/Geology/
URL Link to Human Resources	https://www.tcd.ie/hr/

School of Natural Sciences

The School of Natural Sciences, comprises the Disciplines of Botany, Geography, Geology, and Zoology, and the Centre for the Environment. It is one of the largest schools in the Faculty of Science, Technology, Engineering and Mathematics and hosts biological, physical and social scientists. The School currently accommodates ca. 46 academic staff, ca. 45 postdoctoral research fellows and ca. 164 postgraduate students (including 89 research and 75 taught students). The School of Natural Sciences is one of the first in Ireland to hold an Athena SWAN bronze award for addressing issues in gender inequality. The School's taught programmes are varied as the School offers moderatorships (undergraduate degrees) in Environmental Sciences, Botany, Earth Sciences, Geography, Geology, and Zoology and contributes to other moderatorships including Neurosciences, Geography and Political Science and the Joint Honours Programme (<http://www.naturalscience.tcd.ie/undergraduate/>). The School also has a major commitment to graduate teaching and supervision and currently hosts four MSc taught programmes (<http://www.naturalscience.tcd.ie/postgraduate/>).

Trinity College Dublin, the University of Dublin

Trinity is Ireland's leading university and is ranked 108th in the world (QS World University Rankings 2020). 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 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 is the top ranked university in Ireland and ranked 108th in the world (QS World University Rankings 2020). Trinity ranks in the top 50 in the world on 4 subjects and in the top 100 in 18 subjects (QS World University Rankings by Subject 2020). Full details are available at: 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

Candidates should submit a full curriculum vitae to include the names and contact details of 2 referees (email addresses if possible) together with a cover letter (maximum 2 pages) outlining their teaching experience and approach and their research plan to:

Dr Emma Tomlinson

tomlinse@tcd.ie

by 17.00CEST on February 01st, 2024.

Subject line: Research Fellow in LA-ICP-MS



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