



Post Title:	Post-Doctoral Researcher in Sea Level Change
Post Status:	36 months fixed-term, full time
Research Group / Department / School:	School of Natural Sciences, Trinity College Dublin, the University of Dublin
Location:	Museum Building Trinity College Dublin, the University of Dublin College Green, Dublin 2, Ireland
Reports to:	Dr Robin Edwards, School of Natural Sciences
Salary:	€38 631 – €41, 025. Appointment will be made on the Postdoctoral Researcher IUA scale (point 1) in line with Government Pay Policy.
Closing Date:	Until Filled

Post Summary

We are seeking a Post-Doctoral Researcher to work on the Marine Institute/European Regional Development Fund funded project A4 (Aigéin, Aeráid, agus athrú Atlantaigh—Oceans, Climate, and Atlantic Change). This project targets three areas of physical oceanography and climate research where impactful and strategically important progress can be made: (1) understanding Atlantic variability and its connection to the Irish shelf (Work Package 1); (2) advancing knowledge of Irish Sea level change in an Atlantic context (Work Package 2); (3) development of predictive capacity on decadal timescales for planning and management (Work Package 3).

This position is linked to Work Package 2 of the A4 Project: *Irish sea-level change and Atlantic Context* under the leadership of Dr Robin Edwards. The appointee will be based in the School of Natural Sciences, Trinity College Dublin and will work closely with a PhD student linked to Work Package 2 and with project partners at Maynooth University lead by Dr Gerard McCarthy.

Project Details

Quantifying regional variations in sea level rise is one of the Grand Challenges set by the World Climate Research Programme. Understanding the expression of Atlantic variability on the Irish shelf is important for translating globally averaged rates of mean sea level rise (SLR) to the regional and local scales at which coastal policies and management are enacted.

Changes in North Atlantic circulation are potentially significant drivers of spatially variable SLR. An increase in sea level on the western margin of the North Atlantic linked to declining Atlantic Meridional Overturning Circulation (AMOC) is a consistent feature of regional sea level predictions in the CMIP5 suite of models and has been hinted at in saltmarsh-based, geological reconstructions of relative sea level (RSL) change. Model predictions of regional sea level change on the eastern margin of the North Atlantic in response to a declining AMOC are much less consistent, whilst observations of Irish RSL are comparatively sparse and of limited duration, precluding trans-basin analysis. The appointee will work to bridge this fundamental data gap through field survey and geological reconstruction, working in collaboration with a PhD student, under the guidance of Dr Robin Edwards.

Principal Duties

The appointee will contribute to Work Package 2 of the A4 Project: *Irish sea-level change and Atlantic Context* under the leadership of Dr Robin Edwards. Their principal responsibilities will include:

1. Augment and integrate instrumental measurements with geological tide gauge data to produce a refined picture of recent sea level change around the Irish coastline
2. Produce complementary, trans-Atlantic RSL reconstructions to assess the spatio-temporal evolution of sea level during the Common Era

We are seeking to enhance Irish research capacity with this appointment and as part of their professional development, the appointee will be encouraged to:

- Develop their own research interests / pursue independent funding
- Lead publications associated with sea level, ocean and climate science
- Mentor graduate student under the supervision of Dr Edwards
- Assist with administrative / reporting activities linked to the project

Person Specification & Qualifications

The ideal candidate will have:

- A PhD in Earth Science, Geology, Physical Geography, Oceanography or a related subject
- Experience of working with foraminifera and their use as palaeoenvironmental proxies
- Familiarity with the methods / techniques of saltmarsh-based relative sea-level reconstruction
- Excellent project management skills including the ability to co-ordinate international fieldwork in coastal environments
- The capacity to work independently toward agreed objectives and deadlines
- Experience of working with a research team in a related area of investigation
- A history of publication commensurate with career stage
- Strong oral and written skills
- A full EU driving license

Application Procedure

Applications should be made to Dr Robin Edwards (robin.edwards@tcd.ie) and should comprise:

- 1) An application letter outlining the applicant's interest and suitability for the role
- 2) A full academic CV include the names and contact details of two referees

Only short-listed applicants will be called for interview. It is anticipated that interviews will be held in January 2020. The appointment is expected to be effective from February 2020.

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>.

Trinity College Dublin, the University of Dublin

Trinity is Ireland's premier university, with a proud tradition of excellence stretching back to its foundation in 1592. The oldest university in Ireland, and one of the oldest in Europe, today Trinity sits at the intersection of the past and the future, and is ideally positioned as a major university in the European Union. Our 47-acre campus is located in the heart of Dublin city centre and is home to historic buildings dating from the University's establishment, as well as some of the most cutting-edge teaching and research facilities in Ireland. Trinity has developed [18 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.

Our alumni have shaped the history of Ireland and of Western Europe in a wide range of fields. These include such notable figures as Jonathan Swift, Oscar Wilde, William Rowan Hamilton, Edmund Burke, William Stokes, Denis Burkitt, Louise Richardson, Lenny Abrahamson, and Anne Enright. Three of Trinity's graduates have been awarded Nobel prizes: Ernest Walton for Physics in 1951; Samuel Beckett for Literature in 1968; and William Campbell for Physiology / Medicine in 2015. Trinity also counts the first female President of Ireland among its alumni in Mary Robinson, as well as other notable former Presidents Douglas Hyde and Mary McAleese. At Trinity we are justifiably proud of our tradition, and we strive to uphold this excellence as we face the demands of the 21st century.



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