Postdoctoral Researcher - Greenhouse gas measurements
(ICOS and related projects)
Centre for Climate and Air Pollution Studies (C-CAPS), Ryan Institute,
School of Natural Sciences, Physics
Ref. No. 011698

JOB ADVERTISEMENT

Applications are invited from suitably qualified candidates for a full-time fixed term position as Postdoctoral Researcher - Atmospheric Scientist undertaking measurement, analysis and interpretation of greenhouse gases (GHG's), aerosols and SLCF's (Short Lived Climate Forcers) within the Ryan Institute's Centre for Climate & Air Pollution Studies at the University of Galway. The position is initially for a 19-month period.

This position is funded by the Environmental Protection Agency and is available from 4th May 2026.

Overview of the project: The successful candidate will hold the position of Atmospheric Scientist, at the postdoctoral level, undertaking measurements of GHG', aerosols and SLCF's (Short Lived Climate Forcers)). This will be part of the EPA funded Atmospheric Chemistry and Climate Change (AC3) Network.
Green House Gas measurements will be made under the auspices of the Integrated Carbon Observing System (ICOS). Aerosol and SLCF measurements will be made under the compliancy requirements of the ACTRIS RI(Research Infrastructure)
Observations will be undertaken at 4 sites in Ireland including the University of Galway's flagship Mace Head Research Station. This site is one of the most recognized and respected atmospheric research facilities both nationally and internationally. It has >1,000 publications associated with it, leading to >3,000 citations per year, and an h-index of >92. The facility continues to grow in national and international importance, breaking new ground, not only in terms of operational monitoring of new pollutants in the atmosphere and delivery of real-time in-situ and remote sensing data but also in terms of fundamental research with the highest impact

Salary: Postdoctoral Researcher salary scale €46,805 - €59,654 per annum, (subject to the project's funding limitations), and pro rata for shorter and/or part-time contracts.

The default position for all new public sector appointments is the 1st point of the salary scale. This may be reviewed, and consideration afforded to appointment at a higher point on the pay scale (subject to the project's funding limitations), where evidence of prior years' equivalent experience is accepted in determining placement on the scale above point 1, subject to the maximum of the scale.
(Research Salary Scales - University of Galway)

Closing date for receipt of applications is 17:00 (Irish Time) on 17th April 2026. It will not be possible to consider applications received after the closing date.

*Please review full job description for further details and essential requirement

JOB DESCRIPTION

We are seeking a highly motivated, talented and skilled postdoctoral researcher who will work closely to generate data products, reports, research publications and innovation impacts from AC3 and related projects. The postdoctoral researcher should possess excellent critical thinking skills and have the capacity to conduct cutting-edge high-impact research.

Additionally, the Postdoctoral Researcher will have excellent skills in GHG, aerosol and SLCF monitoring instrumentation, data QA, analysis, visualisation, interpretation and submission to data bases. The postdoctoral researcher will have proven capability in research, data analysis and synthesis, drafting of research papers and reports and development plus delivery of project presentations.

The Postdoctoral Researcher will work within the overall AC3 project team, be a team player and have a strong focus on generating and enabling high-impact research outputs and immediate outcomes from AC3, ICOS and ACTRIS. The successful candidate will be expected to engage in all aspects of the overall project, design and conduct research and to be available to travel to conduct research and advance the project towards research outputs and outcomes.

Duties:

- To conduct high-impact and ambitious research to advance AC3 activity areas towards quality research outputs and outcomes, guided by the Principal Investigator and other senior project team members.
- Determine and implement appropriate and robust research methodologies guided by the Principal Investigator and other senior project team members.
- To take part in international monitoring programs at the university's Mace Head Research Station.
- To engage in and assist with drafting and submission of research papers, reports, and other forms of AC3 project outputs.
- To draft reports for funding agencies and engage in development of proposals for additional funding for the AC3 project.
- Work closely with members of the AC3 research team on an on-going basis to support the efficient functioning of the AC3 project through providing continuous contributions to the technical program, including aiding in the preparation of grant reporting, stakeholder engagement, and research and innovation financing leverage.
- Adhere to the legal requirements regarding data protection and confidentiality data protection requirements.
- Any other duties assigned commensurate to this level of post.

ELIGIBILITY REQUIREMENTS

Essential Requirements:

- PhD degree with quantitative skills in the arena of atmospheric monitoring of greenhouse GHG's, aerosols and SLCF's, high level data processing including quality control, visualisation, interpretation and publication.
- Strong data analytics and data visualisation skills ideally with experience of big data analysis and knowledge of programming languages used for data analysis.
- Excellent data analysis and scientific/report writing skills, combined with superb communication skills (written, oral, visual).
- Willingness to travel to partner countries and internationally as required.
- Recognised track record for research as evidenced by a strong publication record in peer-reviewed journals
- Familiarity with the application of machine learning techniques for advanced data analysis.

Desirable Requirements:
- Highly motivated and detail oriented with the ability to work independently and in close collaboration with team members.
- A track record of interaction with key actors across the EU and beyond along with interacting with relevant funding agencies
- Valid driving licence.

CONTINUING PROFESSIONAL DEVELOPMENT

Continuing Professional Development/Training:
Researchers at University of Galway are encouraged to avail of a range of training and development opportunities designed to support their personal career development plans. University of Galway provides continuing professional development supports for all researchers seeking to build their own career pathways either within or beyond academia. Researchers are encouraged to engage with our Researcher Development Centre (RDC) upon commencing employment - see HERE for further information.

Further Information/Links

- **To apply:** Search Current University of Galway vacancies. Applications must be submitted online.
  - How to apply guide

- For informal enquiries, please contact Dr. Damien Martin, Email: Damien.martin@universityofgalway.ie

- University's Strategic Plan

- Working in Research at University of Galway

- Moving to Ireland (Euraxess)

- [Applicant Information](#)

- We reserve the right to re-advertise or extend the closing date for this post.

- University of Galway is an equal opportunities employer.

- All positions are recruited in line with Open, Transparent, Merit (OTM) and Competency based recruitment.