Applications are invited from suitably qualified candidates for a full time, fixed term position as a Postdoctoral Researcher in the Centre for Climate and Air Pollution Studies (C-CAPS), NUI Galway. The position is funded by EPA-Ireland and is available from 1st March 2019, initially for two years. The position will be supervised by Professor Colin O’Dowd (http://www.nuigalway.ie/physics).

C-CAPS conduct research into atmospheric composition change and its influence on air pollution and climate change. More detail is found on www.macehead.org.

Research Description: The researcher will further develop a top-down inversion system, using the FLEXINVERT model, incorporating data from Irish Greenhouse Gas observation sites to produce high resolution estimates of Irish CH4 emissions. The emissions verification system will be extended to CO2 and N2O, and evaluated against bottom up emissions. The project will Independently verify emissions sinks and sinks of CH4 in Ireland based on data from key boundary sites and produce estimates for 5 years centred on observations from Irish sites and will determine uncertainties in emission estimates by deploying different driving meteorological data, inversion schemes and apriori data.

Qualifications and Experience:

Essential:

- PhD in atmospheric composition/meteorology research along with experience in meteorological and atmospheric composition modelling (e.g. air pollution, airborne hazard dispersion, climate modelling), or data assimilation.
- Extensive programming/computing capabilities, including scripting and visualisation.

Desirable:

- Experience in inverse modelling, particularly with FLEXINVERT.
- A track record of interaction with key actors across the EU along with interacting with relevant funding agencies; development of National EO-Modelling strategies.

Salary range: €39,530 – €48,206 per annum

Start date: Position is available from March 2019

Further information on research and working at NUI Galway is available on Research at NUI Galway

For information on moving to Ireland please see www.euraxess.ie. Informal enquiries concerning the post may be made to colin.odowd@nuigalway.ie

To Apply: Applications to include a covering letter, CV, and the contact details of three referees should be sent, via e-mail (in word or PDF only) to yvonne.barrett@nuigalway.ie Please put reference number NUIG 008-19 in subject line of e-mail application.

Closing date for receipt of applications is 5.00pm on Thursday, 31st January 2019.
National University of Ireland Galway is an equal opportunities employer.

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