



Postdoctoral Research Position Universidad Complutense de Madrid

The [STREAM](#) (Stratosphere and Tropospheric REsearch And Modeling) group at Universidad Complutense de Madrid (UCM) and the Geosciences Institute (IGEO) has a long-standing experience in the fields of tropospheric and stratospheric dynamics, climate variability and air quality. The group is involved in a number of international activities and has a dense network of collaborations. We seek to expand the existing team by recruiting a Postdoctoral Researcher to work on the funded national project “STEADY: air STagnation in the Euro-mediterranean Area: DYnamics and climate variability”.

Air stagnation is a proxy for extreme events such as air pollution, cold spells, heat waves and droughts. Its occurrence is expected to increase in a future climate over some regions of the globe including Europe, but little is known about the variability and dynamical drivers of air stagnation. The project STEADY aims to provide new insights into the drivers of variability and long-term trends in air stagnation in Europe and the Mediterranean region. We will explore the role of large-scale dynamical features on the formation of persistent anticyclonic conditions associated with air stagnation, namely the structure of the Atlantic mid-latitude jet stream, the occurrence of blocking in Northern Europe, and subtropical subsidence over the Mediterranean. STEADY is a collaborative project between UCM and the National Center for Atmospheric Research (USA).

Job details

The successful candidate will conduct research on large-scale dynamics exploring connections between air stagnation in Europe and modes of climate variability on different timescales, as well as the role of relevant dynamical features such as the Atlantic jet stream, blocking or the Hadley cell. As a member of the team, he/she will attend international conferences and carry out research stays abroad, if needed.

Required

1. Applicants must have a PhD in a relevant discipline to the job offer.
2. Demonstrable experience in a relevant research area applicable to the project (climate variability, large-scale atmospheric dynamics).
3. Good computing skills, including programming.
4. Ability to work independently and as a team member.
5. Good English skills (both writing and speaking).

Other desired skills

Experience in climate analysis tools and dynamical diagnostics; knowledge of Unix/Linux including shell script programming; advanced skills in Python, Matlab, or similar data analysis software.

Conditions

- The position is full-time, for 1+1 years. After the first year the contract will be extended an additional year depending on performance.

- The position will start as soon as possible, preferably before the end of January 2020, with the exact date depending on the candidate's availability.
- The salary will be based on experience according to the UCM salary scale, which is on the range of 28000 to 38000 €/year, depending on experience.
- The researcher will work under the supervision of Dr. Marta Abalos and Dr. Carlos Ordóñez at UCM in Madrid, Spain.

Applications

Applications should include:

1. A comprehensive CV
2. A brief statement of research interests and future career plans
3. The names and contact information of two senior scientists who can provide recommendation letters.

Please send your application by email to mabalosa@ucm.es and carlordo@ucm.es, with the title "STEADY Postdoc position".

We welcome applications until June 30th 2019.