

VACANCY NOTICE

Date of issue: December 1st 2009

Two-year position for a PostDoc in the area of hydroclimate modeling at the Climate Dynamics and Impact Unit (UDIC) - IC3 (Barcelona).

LOCATION: IC3 headquarters in Barcelona, Catalonia, Spain

ENVIRONMENT: The Institut Català de Ciències del Clima (IC3) is a climate research institute created by the Government of Catalunya in 2008. IC3's main scientific goal is to assess and understand climate variability and change at both global and regional scales to improve both predictions and projections. Linked to this goal, IC3 works on understanding and simulating how global change modulates variability and change in society and ecosystems. IC3's mandate is to become a leading international centre for climate research in Europe, with a regional focus on the Mediterranean area. IC3 will mainly develop top-quality research on basic and applied climate sciences, while informing society and stakeholders on future climate risks. Working languages of IC3 are English, Catalan and Spanish. For details, see www.ic3.cat.

IC3 is offering a two-year postdoctoral contract to an outstanding candidate in the area of hydroclimate modeling, working at the UDIC (Climate and Impact Dynamics Unit) lead by Dr. Xavier Rodó who is also the IC3 director. The contract can be extended for an additional year period, after which, the candidate can apply for a tenure-track position, depending on scientific achievements and an external evaluation from the Scientific Advisory Board of the Institute.

KNOWLEDGE, ABILITIES & SKILLS:

- MSc degree in Hydrology, Mathematics, Meteorology, Physics, Earth Science, Engineering or Environmental Science. A focus and experience on hydrology will be valued.
- Experience with the use of hydrologic models, data assimilation and model nesting will be valued (e.g. Mike, VIC, CCSM3, etc..).
- Excellent written oral and interpersonal skills.
- Proven experience with computer code languages such as Matlab, S+, R, C+, IDL, LINUX

- Experience with watershed modeling methodology and tools.
- Experience working with large databases.
- Advanced statistical background, especially on interpolation techniques, uncertainty analysis, data validation, GIS mapping systems

MAIN DUTIES: The UDIC of the IC3 seeks a motivated candidate who can lead a newly established area of research in the modeling of hydrological watersheds (mainly in the Mediterranean region, but also in important rivers from Africa, South America and SE. Asia). The candidate will have to implement and operate a hydrologic model nested into either a global or regional climate model, for simulation of selected watersheds. The work will have a focus on model intercomparison and on studying the future likely decadal scenarios of water & power generation availability and will feed attribution and mitigation studies, as well as highly relevant impact modeling work.

REMUNERATION: Annual gross salary 27.500 euros (IC3 salary level S11). Exceptionally, recruitment may be at a higher level when this is justified by qualifications and experience. A deduction of 6.35% will be made for the Spanish health and social public insurance system. In order to calculate net salary figures, an additional tax deduction of around 15% (depending on the salary level) should be applied¹. A tax free food allowance of 1100 euros/year should be added to the previous figures

LENGTH OF CONTRACT: Two years, renewable.

STARTING DATE: The position starts preferably during the first quarter of 2010, or as soon as possible after that date.

APPLICATIONS: The application form and aptitude test should be downloaded from IC3's website www.ic3.cat. Applicants should fill in the application form and the aptitude test and email both of them to jobs@ic3.cat, indicating IC3-UDIC-2010-01 on the "Subject".

CLOSING DATE: Applications will be accepted until the position is filled, and the evaluation of first candidates will start on 20th December 2009. Please, check at IC3's webpage the link for the status of the offer.

¹Tax deduction will be higher the first months of the contract (up to 24%) for non-spanish citizens starting from july to december