

Job title

Postdoctoral Researcher - Early Warning System of Temperature-Related Mortality in Europe

Job description

ISGlobal, is the fruit of an innovative alliance between academic, government, and philanthropic institutions to contribute to the efforts undertaken by the international community to address the challenges in global health.

The research aim of ISGlobal's Climate and Health Program is to address the effects that environmental conditions and climate change have on human health. The research record of scientists in the Program include several high-quality articles in high-impact journals such as Nature, Science, The Lancet, PNAS, Nature Climate Change and Nature Communications. The lines of research include extreme temperatures and precipitation, heat waves and cold spells, the impact of climate change on the spread of infectious (e.g. malaria, dengue, leishmaniosis, chikungunya, Zika) and non-infectious (Kawasaki Syndrome) diseases, the El Niño phenomenon and other environmental and climate factors.

The work associated with the position will be carried out within the Climate and Health Program (CLIMA) of the Barcelona Institute for Global Health (ISGlobal). The position will be paid with funding from the H2020 project Blue-Action (www.blue-action.eu), and research will be carried out in parallel with the work done by other members of the group for the H2020 projects ACCLIM and PUCS, both on the same area of research.

The chosen candidate will develop climate-mortality models to generate a prototype of prediction scheme of temperature-related mortality for a very large ensemble of regions in Europe based on (i) the climate forecasting tools developed by other partners in the project and (ii) a pan-European daily dataset of regional mortality. This new dataset is the updated version of the one used for example in Ballester et al. 2016 (doi:10.1038/NCLIMATE3070).

The final aim is to evaluate how the skill in climate forecasts is transferred to the predictability of mortality risk, and to generate a tool in the area of climate impacts and human health that can increase human adaptation in the context of global warming.

Main duties

The main responsibilities will include the following tasks:

- Management of the climate and mortality datasets.
- Modeling of the relationship between climate and mortality.
- Interaction with end-users and other similar initiatives for the co-design of the prototype.
- Dissemination.
- Preparation of deliverables, manuscripts and project proposals.
- Report to the project IP, the work package leaders and the European Commission.

Una iniciativa de:



Training and experience

The following attributes will be considered during the evaluation process:

- PhD in mathematics, statistics, epidemiology, climate sciences or related field.
- Experience in epidemiological modeling, preferably in the area of climate impacts on human health.
- High capacity in common programming languages, and particularly in R.
- Previous experience with climate data and tools.
- Fluency in spoken and written English.
- Basic knowledge of climate sciences, and interest in climate impacts and services.
- Capacity to write manuscripts and project proposals.
- Previous experience and willingness to work in a multidisciplinary and collaborative environment, preferably within the areas of climate variability, predictability, modeling, impacts and services.

Conditions

The contract is offered for a two-year period, but the position might be extended depending on the excellence of the work done by the candidate. The salary will be competitive and commensurate with experience. The job offer will be closed as soon as a suitable candidate is selected, and the position will preferably start anytime after September 15th 2017.

How to apply

Applicants must send a full CV and a short paragraph of interest (max 150 words) by email to job@isglobal.org, with the subject heading **PD_BLUE-ACTION**. The closing date for the receipt of applications is **17:00 CEST on 31 August 2017**.

Only shortlisted candidates will be contacted.

In ISGlobal we are committed to maintaining and developing a work environment in which the values and principles of our organization are respected and equal opportunities between women and men be promoted in each of the areas in which we operate, not tolerating discrimination based on criteria such as age, sex, marital status, race, ethnicity, disabilities, political leanings, religion or sexual orientation.

"In accordance with articles 5 and 6 of Law 15/1999 on personal data protection, we inform you that your personal data will be incorporated into a Human Resources file, for which the Private Foundation Barcelona Institute for Global Health (ISGlobal) is responsible. If you do not inform us otherwise, ISGlobal will understand that you have consented to the processing of your data. Your information will not be disclosed to individuals or legal public or private entities without your consent unless authorized by law. You can exercise your rights to access, rectify, cancel and oppose the use of your personal information by contacting ISGlobal by post at C/Rosselló, 132, 5è 2a and 7è, 08036 - Barcelona or by email at info@isglobal.org.