

Job Vacancy : Geographical Information Systems data scientist (GIS data scientist)

Organisation : Barcelona Institute for Global Health (ISGlobal)

Description:

The Barcelona Institute for Global Health, ISGlobal, is an innovative alliance between academic, government, and philanthropic institutions that aims to address the challenges in global health.

What We Are Looking for:

We are looking for a GIS data scientist to join our dynamic team and contribute to several state-of-the-art international projects that will innovate on exposure assessment and study the adverse health effects of the environment. This job offer is linked to the application to the Spanish MINECO Call “Ayudas para la Contratación de Personal Técnico de Apoyo (PTA)” by January 24th, 2020.

The position will involve any aspect of the GIS workflow: from data collection to data validation, process and analysis. We are looking for someone willing to work using the most advanced analytical tools, including Machine Learning and Computer Vision applied to Remote Sensing and Spatial Analysis.

Job duties and tasks:

- Data collection, quality control, and documentation
- Development of efficient Python-based workflows to process spatial data Use GIS desktop software (QGIS, ArcGIS) as well as Python/R and PostgreSQL/PostGIS for spatial analysis and visualisation
- Development of efficient Python-based workflows to process spatial data
- Application of machine learning and computer vision techniques to process remotely sensed data
- Provide input on the interpretation of the results
- Provide input on development of methods sections and tables and maps for use in publications and reports
- Provide input on development of methods sections of publications and reports
- Provide support to the researchers
- Maintain close contacts with the national and international research teams

Skills and experience:

- Higher education in statistics /mathematics/geography/environmental science/biology or related topics
- Preferable Master/Course in GIS or related technologies (Remote Sensing, Spatial

Databases, Relational Database Management Systems, Spatial Analysis, Programming)

- Familiar with QGIS and/or ArcGIS, Python and/or R for spatial and statistical analysis, SQL

Spatial and Remote Sensing

- Strong programming and statistical skills

- Previous experience in processing and managing of complex data and large datasets

- Keen interest in environmental exposure and health research

- Motivated researcher capable of setting and meeting deadlines and delivering research outputs to the required standard

- Strong organization and team-working skills

- Professional attitude with attention to detail

- Effective verbal and written communication skills

- Proficiency in English (written and spoken)

- Team player, yet capable of working autonomously, rational and critical thinker

- Willingness to learn new state-of-the-art GIS, programming and statistical methods.

Conditions:

- Duration: 3 years upon successful application to the Spanish MCIU PTA Call
- Starting date: Immediately after successful resolution of the Spanish MCIU PTA (approx. November-December 2020)

How to apply:

Applicants must fill in the [request form](#) and attach the cv and a cover letter, including the following reference: **DataScientist_MCIU_PTA_Dec19**. The receipt of applications will be open until **January, 13rd 2020**.

Applications will be accepted until 17.00 CET of the closing date.

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.