

## **Three post-doc scientists (f\_m\_x) in multiscale soil erosion and soil degradation monitoring in Europe**

The Department of Science at Rome Tre University, Italy, is looking for three (3) highly motivated and talented researchers with experience on Soil Erosion, Earth Surface Processes Modelling or Remote Sensing that will contribute to the theme “Soil Erosion Monitoring” at the BorrelliLAB.

The three (3) post-doc positions are offered as type-A temporary research fellow (Italian RTDA). According to Rome Tre university rules, these are three years post-doc positions each for research with max 70 hours of supporting teaching per year. The gross salary will be about 50,000 euro per year. The net salary after tax for researchers (Italians or foreigners) coming with at least two years of academic experience outside Italian universities will be around 2,600 euro net for 14 monthly payment (including social security, pension and health insurance).

The BorrelliLAB is a highly result oriented Lab with a broad international network but also a family friendly environment. Despite the core time office activity during the brainstorming and teaching period, which will mostly take place in presence, researchers can opt for prolonged periods of flexible home office or other detached activities. Regular technical and brainstorming meetings will be held twice per week via web. Therefore, the presence at the office in Rome all year around is not required.

### **Your responsibilities**

- Work in a group to design new advanced monitoring frameworks to assess soil loss by water at multiple scales, using GIS-based models, geo-statistics, ESA & NASA satellite data, UAV drones, field & laboratory activities.

### **Needed profile**

- Background knowledge (PhD level) in Physical Geography, Environmental Sciences, Earth Sciences, Remote Sensing, Soil Science or a related discipline in Geosciences;
- Very good knowledge of the English language in spoken and written (Italian is not necessary);
- Experience in environmental modelling (GIS) and codes (R, python, or similar);
- Experience with processing remote sensing data;
- Experience with data analytics and eventually machine learning;
- Ability to work independently, as well as within a multidisciplinary team;
- Strong teamwork affinity to work in a diverse environment of scientists and students;

### **What we offer**

- Ambitious, dynamic and international research environment;
- Flexible working hours and conditions;
- Budget for conferences, meetings and basic equipment;
- An established collaboration with European Commission Soil Observatory (Led by JRC), the University of Basel and the UK Centre for Ecology & Hydrology.

### **Working place**

The place of work is University Roma Tre at Leonardo Murialdo campus. The affiliation will be with the Department of Science, Section for Geology, 00146, Rome RM, Italy. Roma Tre University comprises 8 schools and 12 departments, enrolling 35,338 students and having 1,370 academic and professional staff. At present, the university offers 54 undergraduate degree programs, 75 master's degree programs, 16 doctoral schools and five PhD programs.

To get more information about the online application form or about the job itself, please contact **Prof. Pasquale Borrelli** ( [pasquale.borrelli@uniroma3.it](mailto:pasquale.borrelli@uniroma3.it) ). Or check the Albo Pretorio online (UNIVERSITA' DEGLI STUDI ROMA TRE):

<https://www.albopretorionline.it/uniroma/alboente.aspx>