



DIPARTIMENTO DI FISICA  
E SCIENZE DELLA TERRA  
DELL'UNIVERSITÀ DI FERRARA

Ferrara, li 03/06/2021

Deadline: June 10th 2021

Location: University of Ferrara, Italy

## **Postdoc position in 'Study of mitigation of the effects of climate changes and subsidence on saltwater intrusion in coastal areas'**

### **Where**

The Department of Physics and Earth Science of the University of Ferrara ranked first in Italy for its research quality and has been selected by the Ministry of Education, University and Research (MIUR) as one of the "Department of Excellence" and is receiving financial support for research activities as foreseen by the Budget Law 2017.

### **Responsibilities and tasks**

The postdoc will be employed at the Department of Physics and Earth Sciences of the University of Ferrara. The research will focus on the study of the mechanisms of saltwater intrusion and the effects that sea level rise and the change in rainfall pattern exert on this phenomenon. The research will be based on: 1) Data acquisition, 2) Advanced geostatistical and machine-learning models for spatial data analysis, 3) Laboratory-scale investigation of saltwater intrusion dynamics, 4) Application of numerical modelling for the simulation of scenarios and hypothesis of intervention.

### **Qualifications/Candidate requirements**

Phd (or almost completed) in with competences in hydrogeology/hydrology.

Candidates should have a relevant degree or an equivalent overseas degree in Environmental Engineering/Civil Engineering/Earth Science. Candidates with suitable work experience and strong capacity in numerical modelling and experimental skills are particularly welcome to apply. Overseas applicants MUST BE EU CITIZENS and should have fluent English language skills.

**Funding:** The scholarship will be funded by Italian Ministry of Research within the framework of 'Fondi MIUR Dipartimenti di ECCELLENZA LP4 - CUP F71G18000210001'

The grant is €20.325,20 per year. The position is for one year extendible to one more year

### **How to Apply**

For priority consideration, please submit a short letter of interest and CV by **June 10<sup>th</sup>, 2021** to Prof. Claudia Cherubini ([claudia.cherubini@unife.it](mailto:claudia.cherubini@unife.it))