TWO FULLY FUNDED PH.D. POSITIONS ARE AVAILABLE

TOPIC 1: ENVIRONMENTAL AND HYDRAULIC ENGINEERING AND GEOMATICS
call id: 3781-2848

The focus of the research will be on the investigation of the impact of climate change on subsurface ecosystems.

Keywords: sustainable water, resources management, nature base solutions, climate change, water security
Required: M.Sc in Civil or Environmental Engineering, Applied Mathematics, Physics, Numerical Methods or related field
The ideal candidate should have:
Strong background in environmental/physical-based studies and mathematics.
Familiarity with programming languages (such as MATLAB, R, C++, Fortran, Python).
Fluency in English, both written and spoken.

Reference ERCs:
PE1_19 Control theory and optimisation
PE8_3 Civil engineering, architecture, maritime/hydraulic engineering, geotechnics, waste treatment
PE6_11 Machine learning, statistical data processing and applications
PE10_17 Hydrology, hydrogeology, engineering and environmental geology, water and soil pollution
SH7_6 Environmental and climate change, societal impact and policy
Reference SDGs:
GOAL 6: Clean Water and Sanitation
GOAL 11: Sustainable Cities and Communities,
GOAL 13: Climate Action

Start Day: 01/11/2023
Place to work: Milano
Call: open at July 26, 2023
Deadline: September 5, 2023 (2 pm Italian Time)
PhD programme in Environmental and Infrastructure engineering

Where to apply: https://www.dottorato.polimi.it/en/prospective-phd-candidates/calls-and-regulations/39-cycle/2nd-additional-call-2023-24

Call:
https://www.dottorato.polimi.it/fileadmin/user_upload/bandi/ciclo39/bandi_aggiuntivi/2_lug23/3781_2848_APPLICATION_IAI__ENVIRONMENTAL_AND_HYDRAULIC_ENGINEERING_AND_GEOMATICS.pdf
Topic:
https://www.dottorato.polimi.it/fileadmin/user_upload/bandi/ciclo39/bandi_aggiuntivi/2_lug23/SCHEDA_3781_IAI__ENVIRONMENTAL_AND_HYDRAULIC.PDF

Topic 2: Multiscale characterization of heterogeneous porous systems

The focus of the research will be on the investigation of the evolution of porous systems due to bio-geochemical processes.

Keywords: reactive transport, carbon sequestration, mineral dissolution/precipitation, carbon storage, atomic force microscopy, microfluidics

Required: M.Sc in Civil or Environmental Engineering, Physics, Chemistry, Geological Sciences or related field

The ideal candidate should have:
Strong background in in fluid mechanics and/or physics and/or physical chemistry.
Familiarity with experimental and imaging techniques are a plus
Fluency in English, both written and spoken.

Reference ERCs:
PE4_18 Environment chemistry
PE8_3 Civil engineering, architecture, maritime/hydraulic engineering, geotechnics, waste treatment
PE10_9 Biogeochemistry, biogeochemical cycles, environmental chemistry
PE10_17 Hydrology, hydrogeology, engineering and environmental geology, water and soil pollution

Reference SDGs:
GOAL 6: Clean Water and Sanitation
GOAL 11: Sustainable Cities and Communities,
GOAL 13: Climate Action

Call: open at September 14, 2023
Deadline: September 29, 2023.
Where to apply:
https://www.dottorato.polimi.it/en/prospective-phd-candidates/calls-and-regulations

For additional information, please contact monica.riva@polimi.it