



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



DEPARTMENT OF
GEOSCIENCES

Postdoc position on the modeling of microorganism transport in unsaturated soils

We invite applications for a postdoc position to develop a mathematical model describing the microorganism transport in unsaturated soils. The final goal is to predict the impact of agricultural practices on groundwater quality. The work is part of a wider Italian project named PREDICTIVE DYNAMICS OF MICROBIOLOGICAL CONTAMINATION OF GROUNDWATER IN THE EARTH CRITICAL ZONE AND IMPACT ON HUMAN HEALTH (DY.MI.CR.ON) where an interdisciplinary group of scientists and engineers are involved.

Applicants should have a PhD and a strong background in either applied mathematics, geoscience, fluid dynamics, environmental science and engineering, or a related field. Excellent oral and written communication skills in English are necessary, and the knowledge of the Italian language is not required but could be a plus.

Interested applicants should reply to the formal call at this [link](#), and are encouraged to send also their curriculum vitae, statement of research interests, and contact information of three references to Dr. Valentina Prigiobbe at: valentina.prigiobbe@unipd.it and to Prof. Giorgio Cassiani at: giorgio.cassiani@unipd.it. Review of applications will begin immediately.

The University of Padua was founded in 1222 and it is one of Europe's oldest and most prestigious academic institutions. It is placed at [high-ranking positions](#) in both Italian and international ranking agencies for its quality of teaching and research activities as well as student life quality. The city of Padua is a beautiful old city founded in the middle-age. It is located near Venice and Milan which are easily accessible via frequent high-speed trains.