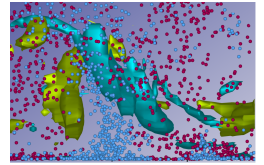




Opening for a PostDoc Position at the Environmental and Process Fluid Mechanics Group and Centro Interdipartimentale di Fluidodinamica ed Idraulica (CIFI) - University of Udine



Mechanisms of Deposition and Growth in Porous Media: Experimental Analysis and Development of Phenomenological Models

Description: Transport phenomena (deposition/accumulation and growth) in porous media are of great importance in many environmental and medical applications. Examples range from new-concept abatement devices to reduce pollution generated by human transportation in urban areas, to stem cells cultures, where a porous medium is used as substrate to grow cells.

Aim of the project is to study deposition and growth mechanisms near a porous wall to improve current physical understanding and develop theoretical models for predicting formation and growth rate of deposits on porous media.

The study will be driven by experimental measurements, which will be performed using the facilities available at the Environmental and Process Fluid Mechanics Lab, supported and complemented by numerical simulations (performed using in-house codes based on RANS and LES approaches).

The project is sponsored by a University grant. The successful candidate should have a PhD in a related area (Engineering or Science) and he/she is expected to interact with the laboratory research team. The candidate is also expected to submit funding proposals for both European and industrial research projects.

The position is available for 12 months but can be extended up to 24 months.

The workplace will be at the University of Udine, in Udine, Italy.

Contact: Enquiries for further details should be sent directly to Prof. Alfredo Soldati, e-mail: soldati@uniud.it

Contract: 12 months (can be extended up to 24 months) fixed-term contract with a monthly net salary of 1450 € which can increase up to 1600 € according with experience. Health and safety insurance is covered independently by the University.

Selection: Applications should be sent BEFORE WEDNESDAY, MAY 15, 2013 to Prof. Alfredo Soldati, e-mail: soldati@uniud.it. Two recommendation letters are required.

After initial email screening of CV's and motivations (a visit can also be arranged), a written application is required to fulfill the administrative duties.

Deadline for Written Application: May 31, 2013

See also: http://www.uniud.it/ricerca/finanziamenti/dottorato/Bandi_attivi?lingua=eng