



UNIVERSIDAD POLITÉCNICA DE CATALUÑA
Department of Civil and Environmental Engineering.
Gran Capitán s/n. Módulo D-2
Barcelona 08034 SPAIN

PostDoctoral Researcher

Advanced geotechnical modelling of soil penetration

Funded by the Spanish Ministry of Economy and Research a short-term PostDoctoral position is available within the geotechnical group of the Department of Civil and Environmental Engineering, at UPC, in Barcelona, Spain.

The researcher will work on a project aiming to develop numerical techniques for the simulation of soil penetration. Both continuum (PFEM) and discrete element-based approaches are envisaged for a challenging modelling problem of widespread practical application.

The candidate should hold a doctoral degree in geotechnical engineering or a closely related field, or be in a position to obtain that degree shortly after starting the contract.

Experience in numerical modelling of geomaterials is desirable, particularly in the areas of advanced Finite Element (PFEM, ALE...) development and/or application, continuum constitutive modelling, and/or discrete element methods applied to geotechnical problems. Candidates whose area of expertise lies outside geotechnical engineering but with experience on relevant techniques (discrete elements, C++, Kratos...) are also encouraged to apply.

The contract duration is of 12 months starting May 2017 or shortly thereafter. The salary initially allocated for this position is of approximately 35.000€ per year. These conditions may be adapted depending on the value of the candidate.

Candidates interested in the position should send a CV, with two references, to Dr. Marcos Arroyo, marcos.arroyo@upc.edu or Professor Antonio Gens, antonio.gens@upc.edu.