



PostDoctoral Researcher

Advanced geotechnical modelling for offshore anchoring

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

The researcher will contribute to a project geared towards developing numerical techniques for the simulation of different anchor foundations (piles, suction caissons). Both continuum (PFEM) and discrete element-based approaches are applied for a challenging modelling problem of widespread practical application. The tasks allocated to the postdoc researcher will be adapted to her/his abilities and interests.

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 (C++, Kratos, discrete elements, ...) are also encouraged to apply.

The contract duration is of 12 months starting May 2023 or shortly thereafter.

Candidates interested in the position should send a CV, with two references, to Dr. Marcos Arroyo, marcos.arroyo@upc.edu. The closing date for applications is 31/03/2023