

Postdoctoral fellowships N° 2

Title: Physicochemical study of cements and the incorporation of environmental liabilities in the formulation of concrete

General objective

Incorporate environmental liabilities in obtaining concrete with properties suitable for different applications.

Objectives

Studying the physicochemical characteristics of commercial cements and those characteristics related to the microstructure of solid obtained and also the performance in different applications. Studying environmental liabilities from the point of view of its formulation for the use as supplementary materials in specific conditions for different applications. Designing appropriate mechanical and chemical treatments to achieve the maximum performance of these materials as components of the concrete according to some different applications.

We seek candidates with communication skills to deal with both companies and researchers and scholars; time availability and English language proficiency.

Candidate profile

Undergraduate and graduate themed materials knowledge necessary for physical and chemical characterization of stone aggregates, solid waste, composites and cements, and for interpretation of results and choice of techniques. Preference will be given those graduates of Civil Engineering, Chemical Engineering Degree in Physics, Degree in Chemistry, Mining Engineering, Materials Engineering, Environmental Engineering or related with doctoral training in Engineering, Physics, Chemistry, Materials or other related doctorates.

NB: These plans are part of the Project Implementation Unit of the Institute Applied Physics San Luis - INFAP (UNSL-CONICET), call 2017.

Characteristics of the internal grants under Postdoctoral EU projects

They are intended for candidates who have passed their doctoral theses, with in order to improve their education or specialty and develop tasks of scientific and technological research, within the framework a research project units.

The maximum length of internal Postdoctoral fellowships is twenty-four (24 months). The age limit for the nomination will be up to 37 years at 31 December 2016 inclusive.

Starting date: April 1, 2018.

It is an obligation for the fellows to be devoted exclusively to this academic and research task according to the work plan of the scholarship. Candidates who are benefiting from a grant from CONICET are not allowed to change their workplace and/or their director of scholarship.

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Links: <http://convocatorias.conicet.gov.ar/proyectos-de-ue/>

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