

Research Grants for PhD students from the China Scholarship Council

Information Form (please read the guidelines carefully on the website www-csc.utt.fr)

Supervisor's name : Given names :

Status (prof., assistant prof., ...) :

Laboratory : Website address :

Institution : Website address :

Scientific competence of the supervisor:

Civil engineering, Geomechanics, Soil stability, Constitutive modeling, Design of experiments, granular materials, Mortar and Concrete

Two major publications in the field proposed for the PhD :

1.
2.

Website address of the personal page :

Supervisor's email :

Description of the research work proposed for a PhD **Topic # (see list) :**

Title :

Subject :

The objective of this project is the development of adequate design method of green concrete, which includes selected by-products. The effort will be made on the optimization of the compactness of the granular skeleton and to study instabilities and failure that may occur. An extensive characterization of targeted by-products, in the context of concrete production, will be carried out. From the observed results, specific design methods will be proposed in order to optimize the use of by-products and make the green concrete cost effective. The durability of the designed concretes will be assessed throughout the measurement of few indicators.

Keywords :

Concrete, granular materials, recycling, by-products, durability

Expected collaborations :

Prof. R. ZENTAR from Ecole des Mines de Douai (France)

Background required from the applicant :

Civil engineering, concrete, granular materials

Existence of a PDF file detailing the proposal ("yes" or "no") :

(see guidelines on the website www-csc.utt.fr)