



## ***Laboratory and Field Testing of Unsaturated Soils***

**UNIVERSITE DE PAU ET DES PAYS DE L'ADOUR**  
**Laboratoire SIAME, Anglet, France (Côte Basque Campus <http://goo.gl/maps/OqJoM>)**

**EU “MARIE CURIE” EXPERIENCED RESEARCH FELLOW**  
**Full-time, fixed term for 2 years**

### **MONTHLY SALARY AND ALLOWANCE (ACCORDING TO EU RATES)**

**Single person: about 4 600 €gross (about 3 780 €net of social security contributions)**

**Person with family: about 4 860 €gross (about 4 000 €net of social security contributions)**

The Université de Pau et des Pays de l'Adour seeks to recruit a Marie Curie Research Fellow for a period of 24 months in the framework of the Marie Curie Industry-Academia Partnership Pathways (IAPP) Network MAGIC (Monitoring systems to Assess Geotechnical Infrastructure subjected to Climatic hazards). The Network MAGIC is funded by the EC/FP7 with a budget of €1.85M over a period of 4 years. The Network brings together a unique mix of researchers from Academia and Industry across Europe and includes the University of Strathclyde (UK, coordinator), the Université de Pau et des Pays de l'Adour (France), the Technical University of Delft (Netherlands), Pessl Instrument GmbH (Austria), UMS GmbH (Germany), TecnoPenta srl (Italy), and G IMPULS Praha (Czech Republic).

The Research Fellow will work at the Université de Pau et des Pays de l'Adour under the direction of Prof. Domenico Gallipoli and will be affiliated to the Laboratoire des Sciences de l'Ingénieur Appliquées à la Mécanique et au génie Electrique (SIAME). Further details on the Université de Pau et des Pays de l'Adour and the Laboratoire SIAME can be found at <http://www.univ-pau.fr/live/> and <http://siame.univ-pau.fr/live/>, respectively.

The Research Fellow will be in charge of the development and commissioning of a new laboratory facility, which will be equipped with high-suction tensiometers, triaxial cells and shear boxes for the hydro-mechanical testing of unsaturated soils. In liaison with other Network partners, the Research Fellow will design a new high-suction tensiometer for measuring soil water tension and will develop the relevant methodologies for interpreting water tension measurements, both in the laboratory and in the field.

S/he will undertake multiple tasks which will include: a) liaising with providers for the procurement of equipment (mainly high-suction tensiometers and triaxial cells for unsaturated soils), b) designing and manufacturing of ancillary equipment parts, c) installing/commissioning of equipment, d) performing tests and subsequent data interpretation and e) helping with the preparation of periodic reports and the organization of Network meetings/events.

Essential professional requirements: applicants will hold a first class degree in civil engineering (or equivalent) and have, or be in the final stages of a PhD in soil mechanics, geotechnical engineering or a related field. Applicants must be skilled in laboratory testing of soils and have preferably had previous experience in the manufacture/utilization of high-suction tensiometers and triaxial cells for unsaturated soil testing. Applicants must be capable to communicate in good English, including the oral and written presentation of research papers. They must show evidence of a growing international research

reputation and be able to deliver international leading research in soil mechanics/geotechnical engineering.

Preferable, but not essential, professional requirements: applicants with complementary expertise in the use of finite element software for the analysis of boundary value problems in geotechnical engineering will be favourably considered.

Applicants are strictly required to meet all of the following eligibility criteria according to EU rules:

1. They must not have resided in France for more than 12 months in the last 3 years immediately prior to commencing in the role (compulsory national service and/or short stays such as holidays are not taken into account).
2. They must be in possession of a doctoral degree or, alternatively, have at least 4 years research experience.
3. They must have less than 10 years research experience, including the time spent for the obtainment of the doctoral degree.

Applications consisting of:

- a) a full CV
- b) a letter of motivation stating the reasons why the applicant is interested in this position
- c) the names, addresses and emails of two referees, to be contacted if necessary

should be emailed to Prof. Domenico Gallipoli at the address [domenico.gallipoli@univ-pau.fr](mailto:domenico.gallipoli@univ-pau.fr) before **Monday 13 May 2013**. The expected start date of the post will be within September or October 2013.

**We value diversity and welcome applications from all sections of the community. Expressions of interest are particularly welcomed from women and ethnic minorities.**