

PHD STUDENTSHIPS:

LIFE (FLUID STRUCTURE INTERACTIONS LAB) IN OFFSHORE, BIOINSPIRED AND WIND ENGINEERING

UNIVERSITAT ROVIRA I VIRGILI, TARRAGONA, SPAIN

The Fluid-Structure Interactions Lab (LIFE) (<http://www.etseq.urv.es/life/>) at the Department of Mechanical Engineering at the Universitat Rovira i Virgili (URV) (www.urv.cat) in Tarragona (Spain), is looking for an enthusiastic research student with a strong interest in fluid dynamics to apply for one of the FI 2012 grants given by the Catalan Government. Successful candidates will join a small but very active multidisciplinary team, working in fluid dynamics and fluid-structure interaction problems. The research will be mainly experimental and focused in the area of fluid-structure interaction with application to several engineering problems. The ongoing research lines in the LIFE group are:

- *flow-induced vibrations in offshore structures*
- *fluid-structure interactions in bio-inspired design*
- *flow induced vibrations offshore energy generation devices*
- *Fluid-structure interaction in offshore floating wind turbines*

The research studentships will cover URV's PhD registration fees plus a monthly stipend.

CANDIDATES: Successful candidates must hold a good a **Master degree in Engineering** (equivalent to a MEng/MSc, 4 or 5 years course), preferably in Mechanical, Industrial, Aeronautical or Civil Engineering. Preference will be given to candidates able to demonstrate the following skills:

- Matlab, C/C++, FORTRAN or other scientific programming language.
- LabVIEW or other instrumentation oriented programming language.
- Mechanical engineering design tools such as Pro/Engineer, Solidworks...
- Finite Element packages such as ANSYS, ABAQUS,...
- Experience with the use of experimental techniques with emphasis in optical measurement techniques, especially PIV.

APPLICATION PROCEDURE: Interested candidates should look for the application information in AGAUR's [website:](http://www10.gencat.cat/agaur_web/AppJava/english/a_beca.jsp?categoria=predoctorals&id_beca=17901) http://www10.gencat.cat/agaur_web/AppJava/english/a_beca.jsp?categoria=predoctorals&id_beca=17901 and also send the following documents by email, to Francisco J Huera-Huarte (francisco.huera@urv.cat):

- Complete CV (with photography)
- Motivation letter (max. 500 words)
- Name and contact details of 2 academic referees.

To avoid problems with the Spam filters, include in the **SUBJECT OF THE EMAIL** the following text: **FI 2012 PhD studentships**, otherwise application might not be processed. The deadline for the applications is the 22nd of September 2011 but paperwork requires time and it is recommended to have all documents ready by September 15th.