

FPI 2013 PhD STUDENTSHIPS @ LIFE group

FLUID STRUCTURE INTERACTIONS IN OFFSHORE AND WIND ENGINEERING

The Laboratory for Fluid-Structure Interaction (LIFE) (<http://www.etseq.urv.es/life>) of 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. Successful candidates will join a small but very active multidisciplinary team, working in 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. Some of the topics that will be covered during the research include but are not limited to: *flow-induced vibrations of offshore structures; dynamics of offshore energy generation devices; new concepts for offshore energy generation; aero/hydrodynamics of offshore wind turbines; wake interactions between wind turbines; new designs of vertical axis wind turbines; etc...*

The research studentships will cover URV's PhD registration fees plus a monthly stipend, granted by the Spanish Ministry of Science (≈ 1100 € net/month during the first two years and slightly higher the last two). The work will be mainly experimental and will be carried out at the department facilities, including two wind tunnels and a water channel. There is also the possibility to use and develop CFD and FEM prediction tools.

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

- Matlab or another 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 optical measurement techniques, especially PIV.

APPLICATION PROCEDURE: Interested candidates should send the following documents, in English or Spanish, to Francisco J Huera-Huarte (francisco.huera@urv.cat). The application procedure can be found in:

- Complete CV (with photography)
- List of subjects and grades of first degree.
- 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: **FPI 2013 PhD studentships**, otherwise application might not be processed.

Full details of the call and the complete application procedure appears in the [Ministry of Science website](#).