

2019 PhD STUDENTSHIPS @ LIFE group

The Laboratory for Fluid-Structure Interaction (LIFE) (<http://lifeurv.wordpress.com/>) of the Department of Mechanical Engineering at the Universitat Rovira i Virgili (URV) 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. The topics that will be covered during the research include: *aero/hydrodynamics of cross-flow turbines; wake interactions between turbines; new designs of vertical axis wind turbines; dynamics of flapping devices for propulsion or energy harvesting.*

The successful candidate will be registered to the Inter-University PhD Programme in Fluid Mechanics, (6 Spanish Universities). The work will be mainly experimental and will be carried out at the Department of Mechanical Engineering (URV) facilities, including wind tunnels, water channel and towing tank. There is also the possibility to use and develop Computational mechanics prediction tools.

CANDIDATES: Successful candidates **must hold a Master degree in Engineering** (equivalent to a MEng/MSc, 5 years course preferably), 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 Prof. Francisco J Huera-Huarte (francisco.huera@urv.cat).

- Complete CV (with photography)
- List of subjects and grades of first degree.
- Name and contact details of 2 academic referees. (letters not needed)

To avoid problems with the Spam filters, include in the **SUBJECT OF THE EMAIL** the following text: **2019 PhD studentships**, otherwise application might not be processed.

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