

URV 2015 PhD STUDENTSHIPS @ LIFE group

Grant reference: 2015PMF-PIPF-34 - Fluid structure interactions

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 considered during the research include but are not limited to: **bio-inspired locomotion, flapping based propulsion, energy harvesting systems etc...**

The **work will be mainly experimental** and will be carried out at the URV department facilities, including two wind tunnels and a large free surface water channel. There is also the possibility to use and develop CFD and FEM prediction tools.

Applicants will follow the **Inter-University PhD Programme in Fluid Mechanics** (http://www.urv.cat/estudis/doctorat/mecanica_fluids/en_linies_mecanica_fluidos.html) in which URV participates together with other Spanish Universities: U. Jaén, U. Politècnica de Madrid, U. Zaragoza, U. Carlos III Madrid y UNED.

CANDIDATES: Successful candidates must hold a **Master degree in Engineering** (at least equivalent to a 5 years course in Engineering) **at the time of the application**, in the areas of **Mechanical, Industrial, Aeronautical, Naval or Civil Engineering** (other backgrounds will not be considered). 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, ...
- Finite Element packages such as ANSYS, ABAQUS,...
- Experience with the use of optical measurement techniques, with emphasis in PIV.

APPLICATION PROCEDURE: Interested candidates should contact **Prof. Francisco J Huera-Huarte** (francisco.huera@urv.cat) by email, attaching a recent CV (with photography) and the name and contact details of 2 academic referees (no letters necessary). Please, include your full name and your Passport (NIE, NIF, DNI) number in the email. To avoid problems with the Spam filters, include in the **SUBJECT OF THE EMAIL the following text: URV 2015 PhD studentships**, otherwise application might not be processed.

Please, note that **just by sending me an email you have not entered the application process**. The **application process is managed by URV** and requires a series of documents to be presented by the applicants through a website system.

- Application form completed in accordance to the electronic instructions and addressed to the Rector of the URV
- Photocopy of identity card, resident's card or passport currently in force.
- Curriculum Vitae
- Photocopy of the certificate of the official academic qualification or proof of payment of the fees for the issuance of the certificate that allows the holder to access the doctoral studies.
- Photocopy of academic transcript of the undergraduate degree.
- Photocopy of academic transcript of the master's degree. Candidates who have not completed their master's degrees must send their provisional academic transcript.
- Other merits

The reference for the grant is **2015PMF-PIPF-34**. **Applicants applying to other positions at the same time will not be considered.**

Details of the position:

http://www.sgr.urv.cat/cgi-bin/programes/candidats_web/veuperweb.cgi?conv=2015PMF-PIPF-&ordre=34&idioma=ENG&hash=115811f5a095e3c3c7b3b424c9f55faea2dcef51

Regulations associated to URV's grants:

http://www.urv.cat/media/upload//arxius/recerca_innovacio/programes/urv/programa-MF/2015/PIPF/1a%20edicio/2015PIPF_bases_convocatoria_en.pdf

Calendar and deadlines associated to URV's grants:

http://www.urv.cat/media/upload//arxius/recerca_innovacio/programes/urv/programa-MF/2015/PIPF/1a%20edicio/2015PIPF_calendari_en.pdf

The **Application form must be presented electronically through the system, but it must also be presented in any of the legal ways established by URV**: Registry of URV, Auxiliary URV registries, telematic URV registry, Spanish Government registries, Spanish Postal Service registry, Spanish Diplomatic representations or Consular offices.

Any application not fulfilling all these requirements will not be considered. Complete details about the call and the complete application procedure appears at: [URV Martí Franquès Program website](#). Strict **deadlines** apply to the call **(15/06/2015)**.