URV 2019 PhD STUDENTSHIPS @ LIFE group

http://lifeurv.wordpress.com/

Grant reference: 2019PMF-PIPF-75 - Dept. Mechanical Engineering

The Laboratory for **Fluid-Structure Interaction (LIFE)** (http://lifeurv.wordpress.com/) 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 and fluid-structure interaction. Successful candidates will join a small but very active multidisciplinary team, working in several fluid-structure interaction (FSI) problems. The research will be mainly experimental and focused FSI with application to several engineering problems. Some of the topics that will be considered during the research include but are not limited to *energy harvesting systems using cross-flow turbines or other novel concepts.*

The research will be carried out at the LIFE group facilities, including two wind tunnels, a towing tank and a large free surface water channel. There is also the possibility to use and develop CFD and FEM prediction tools.

Applicants will enroll in the **Inter-University PhD Programme in Fluid Mechanics** (http://www.doctor.urv.cat/en/prospective-students/courses/7720/index/) in which the URV participates together with other Spanish Universities: U. Jaén, U. Politécnica de Madrid, U. Zaragoza, U. Carlos III Madrid y UNED.

CANDIDATES: Successful applicants 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 (please, note that other backgrounds will not be considered)**. Preference will be given to candidates able to demonstrate the following desired skills:

- Matlab / Octave / Python or another scientific programming language.
- LabVIEW or other instrumentation-oriented programming language.
- Mechanical engineering design tools such as Creo, Inventor, Solid Works, …
- Finite Element packages such as ANSYS, NASTRAN,…
- 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) or **Prof. Albert Fabregat** (a.fabregat@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 (otherwise application might not be processed): URV 2019 PhD studentships**

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.

- 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. Students who are registered on an official university master`s course that allows them to access the doctoral programme during the 2019/2020 academic year must present a photocopy of their master`s course registration form.
- 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.

- Declaration of equivalence (The equivalence document of the average grade is mandatory if the Bacherlor degree and/or Master has been studied abroad (out of Spain))
- Motivation letter (Optional)
- Reference letter (Optional)
- Accreditation of linguistic knowledge of English (Optional)

The reference for the grant is **2019PMF-PIPF-75**. Please note that **applicants applying to other positions at the same time will not be considered.**

Details of the position:

https://www.sgr.urv.cat/cgi-bin/programes/application/detall.cgi?conv=2019PMF-PIPF-&ordre=75&idioma=ENG

Other information related to the grant:

http://www.urv.cat/en/research/support/programmes/urv/programa-marti-franques/pipf/2019/

The **Application form must be presented electronically through the system, but <u>it must also be presented in any of the legal ways established by URV</u>**: 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.

DEADLINE 02/09/2019