

PhD position in liquid fuel combustion optimization

LIFTEC, The Laboratory of Research in Fluid Dynamics and Combustion Technologies is a joint center between the Spanish Scientific Research Council (CSIC) and University of Zaragoza. The research activities at LIFTEC are dedicated to the study of various phenomena related to Fluid Dynamics, with special attention to environmental problems, including experimental, computational and theoretical techniques.

LIFTEC is consolidated as a reference center of international standing within these disciplines. Some of the experimental facilities at LIFTEC are considered to be "singular" and unique within the Spanish context. These include a semi-industrial burner, laminar flow reactors both for fluid and solid fuels, atomization systems and test benches for PEM fuel cells. These facilities are equipped with state-of-the-art diagnosis and monitoring systems.

WE are looking for: PhD student position available to develop his/her Thesis within the frame of a Spanish Government fellowship (FPI grant, up to **48 months and full-time contract**). The offer is addressed to **Engineers** and **Physicists** who are entitled to enroll in a PhD program at the University of Zaragoza .

Field of work:

- Liquid fuel combustion optimization.
- Focus on difficult-to-burn, alternative fuels and bio-fuels.
- Experimental and modeling work on liquid combustion:
 - o Experiments at different scales: Single Droplet Combustion Facility, Semi-Industrial Furnace.
 - o Numerical and theoretical modeling.
- In the framework of several research projects.

What we offer:

- Full-time contract, up to 48 months.
- Develop your Thesis in a team with intense R&D activity.
- Collaboration with companies and other research groups.
- Possibility to conduct part of the Thesis in foreign centers.

Requirements:

- Engineering or Physics graduates with good academic record.
- Knowledge in Fluid Mechanics and Combustion would be valued, although it is not compulsory as specific formation will be provided
- Comply with the requirements to access a PhD program at the University of Zaragoza (minimum of 60 ECTS in MSc.). - Good English or Spanish communication skills.

Send **ASAP** a **CV** and a copy of your **academic record** to webhci@unizar.es with copy to ofertaseures@aragon.es SUBJECT: PhD LCI LIFTEC

Deadline 1/11/2020

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