Researchers in training at IMDEA Energy to work on

Porous materials for the purification of fresh water

The Institute IMDEA Energy is a Research Centre created by the Regional Government of “Comunidad de Madrid” to develop world-class R&D on clean and renewable energy. The ultimate goal of the Institute IMDEA Energy is to achieve outstanding scientific and technological contributions in the creation of a sustainable energy system. The aim of the Institute is to make a significant impact in all energy-related research topics by bringing together high quality researchers, providing them with excellent infrastructures and resources and promoting their close collaboration with the industrial sector.

IMDEA Energy is opening a researcher in training position on the fresh water purification using different functional porous materials, with the following characteristics:

Your Tasks:

• Synthesis of different porous materials (carbons, silica, titania, metal organic frameworks and their composites or functionalized derivatives)
• Full characterization of the obtained materials using a large panel of techniques
• Testing water purification
• Scale-up and shaping of the best performing materials
• Preparation of a prototype working under real flow conditions.
• Critical analysis and dissemination of the results and writing of reports.

Your Qualification, experience and skills:

• Holding an official Master in Chemistry, Pharmacy, Materials Science or Chemical Engineering.
• Having no more than 4 years in possession of an official degree.
• Knowledge on basic techniques of materials synthesis, adsorption and catalytic processes.
• Knowledge and experience on characterization methodologies (XRD, IR, TGA, sorption, microscopic techniques, HPLC, ion chromatography, etc.)
• Fluent oral and written communication skills in English.

Location: Mostoles, Madrid, Spain.

Remuneration: 13.300.00 € annual gross salary

Duration: One-year appointment. Expected starting date: January 2021

Reference: 20.31 MPA5 PRE

Applicants should send their Curriculum Vitae, covering letter and student records (BSc and MSc) with the obtained average marks (as well as recommendation letters, if any) not later than the 13th November at 15:00h to the following address:

email: patricia.horcajada@imdea.org

Subject: Reference 20.31.MPA5 PRE