IMDEA Energía; Móstoles (Spain)

Researcber in training at IMDEA Energy to work on

Metal organic frameworks for the efficient removal of organic emerging contaminants from wastewater

The IMDEA Energy Institute is a Maria de Maeztu Center of Excellence with the mission of developing world-class R&D in the field of clean and renewable energy technologies. The Institute aims at contributing to the establishment of a sustainable energy system with a high degree of decarbonisation, economically competitive and securing energy supply (www.energy.imdea.org).

IMDEA Energy is opening a researcher in training position on the water remediation using multifunctional metal organic frameworks, with the following characteristics:

**Your Tasks:**
- Synthesis of metal organic frameworks (MOFs).
- Full structural, physicochemical, textural and optical characterization of the obtained materials using a large panel of techniques.
- Testing separation and photocatalytic degradation of challenging emerging pollutants.
- Scale-up and shaping of the best performing materials.
- Preparation of a lab-scale 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 BSc in Chemistry, Pharmacy, Materials Science or Chemical Engineering.
- Having no more than 4 years in possession of an official BSc degree.
- Knowledge on basic techniques of materials synthesis, adsorption and (photo)catalytic processes.
- Knowledge and experience on characterization methodologies (XRD, IR, TGA, DLS, fluid sorption, microscopic techniques, UV-Vis, NMR, MS, HPLC, etc.)
- Fluent oral and written communication skills in English.

**Location:** Móstoles, Madrid, Spain.

**Remuneration:** 13.300.00 € annual gross salary

**Duration:** One-year appointment. Expected starting date: March 2021

**Reference:** 20.46 MPA9 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 **18th December at 15:00h** to the following address:

email: patricia.horcajada@imdea.org

Subject: 20.46 MPA9 PRE