

## JOB OFFER IN MOLECULAR DESIGN

- **RESEARCH FIELD**  
Computational Chemistry  
Molecular Design  
Computational Catalysis  
Heterogeneous Catalysis  
Chemical Process Design  
Chemical Process Modelling
- **OFFER DEADLINE**  
30/04/2022- 00:00 - Europe/Brussels
- **LOCATION**  
Madrid, Spain
- **ORGANISATION/COMPANY**  
Repsol
- **DEPARTMENT**  
Repsol Technology Lab
- **TYPE OF CONTRACT**

Full-time, fixed-term but with the aim to move to a permanent contract. The intention is to apply to public grant funding (Torres Quevedo program, Marie Skłodowska-Curie Actions Individual Fellowships or others).

- **BRIEF DESCRIPTION OF THE INSTITUTION**

Repsol is a global multi-energy company that is present throughout the value chain, working to drive evolution towards a low-emissions energy model.

Repsol is leading the energy transition by being the first company in the energy sector to set the goal of reaching net zero emissions by 2050, in line with the targets set out in the Paris Agreement on climate change.

From exploration, production, and refining to new energy research, development, and marketing: we bring efficient, sustainable, and competitive energy to millions of people. Our corporate headquarters are located in Madrid, Spain. We are present in 37 countries, distributing and selling our products across 100 countries with a diverse and multidisciplinary team comprising more than 25,000 people representing 84 nationalities worldwide.

Repsol counts with a R&D institution located in Móstoles in which there are more than 200 researchers from around the world with different skills working at the Repsol Technology Lab with a mission for the future: to find new ways to produce more sustainable energy and transform it more efficiently. We work in collaboration with the best partners, universities, and research centers throughout the world.

With hard work, talent, and enthusiasm, Repsol is working to build a better future through the development of smart energy solutions.

Our values of flexibility, transparency, responsibility, integrity and innovation are at the core of everything we do. When contracting for goods and services, we also look for people and companies that share and apply these same values.

Repsol demands all contractors and suppliers to comply with current legal requirements, regulations and Repsol standards related to human rights, workers' rights, the environment, health and safety. All of our contractors and suppliers are also expected to abide by the policies outlined in Repsol's corporate Ethics and Conduct Code for Suppliers.

- **BRIEF DESCRIPTION OF REPSOL TECHNOLOGY LAB RESEARCH**

The Repsol Technology Lab is an example of one of the most cutting-edge private R&D models in Spain. It's based on open innovation and a network of partnerships encompassing technology centers, businesses, and universities worldwide, whose objective is to seek sustainable solutions to achieve a more efficient and competitive lower-carbon business.

At Technology & Corporate Venturing, we promote the creation of competitive advantages that will accelerate the development and deployment of new technologies and business models for Repsol and Society, along two lines:

- Research and the implementation of in-house technologies developed at the **Technology Lab Research Center**, with a new R&D model focused on:
  - Three Upstream Product Ranges: Subsurface Modelling; Rock Characterization and Mechanical Earth Model and Completions and Production.
  - Four Downstream Product Ranges: Process Optimization, Process Design, Product Design and Advanced Energy Management Systems.
  - Three cross-cutting areas: Advanced Mathematics; Biotechnology and Experimentation and Robotics.

Where more than 200 scientists and researchers, with the support of management personnel, are currently developing more than 180 technology solutions and 70 new technology products.

- Our research is supported and complemented by the **Corporate Venturing** investment fund and an **Open Innovation** strategy. Through investments in innovative start-ups **Corporate Venturing** has contributed to the acquisition of 18 investee companies, with the investment of an €85 million fund in other companies that will meet the Company's needs.

We are an area where collaboration with scientific and technological companies is essential to keeping on top of new research trends and areas.

- **BRIEF DESCRIPTION OF THE PROJECT**

Repsol is offering to host a talented and leading researcher wishing to acquire experience in intersectoral research in non-academic environment. We offer the opportunity to work in a private multinational company, well business-oriented and in a

multidisciplinary environment with more than 200 researchers from different disciplines within the multienergy sector.

Applicants with a passion for research and solving complex problems are encouraged to apply and develop innovative research focused in disruptive solutions for reducing environmental impact of plastics waste. As a main polyolefin's producer, Repsol is really concerned about the development of sustainable products and the circular economy, with the aim of limiting the generation of plastic waste in the landfill or marine environment.

Repsol supports any disruptive breakthrough improving the biodegradability of polyolefins.

- **CANDIDATE PROFILE**

PhD in Computational Chemistry / Chemistry / Chemical Engineering/ materials Science, other STEM disciplines will be assessed if proper description and fit is expressed. E.

At least 4 years of mixed public and corporate Postdoc.

Proficient in English.

We are looking for open-minded, independent, highly motivated, proactive, creative and passionate researchers with excellent communication skills and ready to be challenged with multi-disciplinary R&D projects. The job will entail interpreting and generating state of the art knowledge in different disciplines related to Chemistry, Materials Science and Chemical Engineering in order to transform it into innovative products in a fast-paced environment. Management skills as well as teamwork spirit are a must and experience in Project management and Product development is highly valued.

Interested applicants should submit:

- 2) A copy of CV, containing names and contacts of at least three references.
- 3) A letter of interest explaining the candidate's motivation.

Please send these documents to [guillermo.revilla@repsol.com](mailto:guillermo.revilla@repsol.com) by no later than April 30<sup>th</sup> 2022.