**Post-doctoral position: Research on CO2 conversion at the Theoretical Heterogeneous CatalysisGroup, Institute of Chemical Research of Catalonia, ICIQ (Spain)**

**Starting date: March 2020**

**Research project: OpenFoam COMSOL**

The Theoretical Heterogeneous Catalysis group at the Institute of Chemical Research of Catalonia, ICIQ invites applicants for a talented postdoctoral researcher to work in an industrial project with TOTAL for the implementation of new technologies for the conversion of CO2 to valuable compounds following the initial works published in Nature Comm. 10, 3377 (2019) (<https://www.nature.com/articles/s41467-019-11349-9> ).

The researcher will upgrade the results from First Principles Simulations to different kinetic and reactor models. Therefore, having a background in the use of OpenFoam (Catalytic modules) and/or COMSOL is a must. The work will be done in collaboration with an experimental group at ETH-Zurich (Switzerland) and will be funded by TOTAL. The contract will be for one year with an extension for a second one upon mutual agreement.

The applicant is expected to have a degree in Chemical Engineering, Physics, Applied Maths or similar areas. Previous experience in OpenFoam and/or COMSOL for the study of reactors will be considered as an extra merit. Excellent oral and writing and communication skills in English are required. The application should include in a single file: (i) a statement of interest, (ii) a CV, and (iii) the contacts of two persons willing to write a letter of recommendation.

**For more information**, please contact: Prof. Núria López, email: [nlopez@iciq.es](mailto:nlopez@iciq.es)

The application shall be submitted to [computationalgroups@iciq.es](mailto:computationalgroups@iciq.es) with the subject “Postdoc-TOTAL”. Applications will be evaluated continuously until the position is filled.