

Postdoctoral Researcher (Ref: **Postdoc 2022-16 ALL**)

The Institute of Chemical Research of Catalonia (ICIQ) is seeking a Postdoctoral Researcher.

ICIQ is committed to performing excellent research at the frontier of knowledge in the broad area of chemistry (Catalysis, Artificial Photosynthesis, Activation of Small Molecules, Photovoltaics, Functional Molecular Assemblies and Chemical Biology, from either theoretical or experimental perspectives). The institute also aims at training the future generation of scientists by offering high-quality educational programmes to master, PhD students and postdoctoral researchers (Full details on <http://www.iciq.org/>).

Our mission is to lead, from the vantage point of molecular science, cross-strategies for solving major social and economic challenges, such as climate change and sustainable supply of energetic and raw materials, thereby contributing to the establishment of a knowledge-based economy and improving citizens' quality of life in our influence area.

ICIQ is looking for a postdoctoral researcher to work in Prof. Antoni Llobet's group. The candidate will participate in the European project FET-Proactive: LICROX - Light assisted solar fuel production by artificial CO₂ Reduction and water Oxidation and CONDOR-Combined suN-Driven Oxidation and CO₂ Reduction for renewable energy storage. The research work to be developed is framed within the field of light induced redox catalysis with MOLECULAR transition metal complexes with a special focus on the water oxidation and CO₂ reduction processes.

The overall objective is to develop powerful MOLECULAR catalysts that can be anchored on photoanodes and photocathodes to improve their overall performance. The final goal is to build a photoelectrochemical cell for the generation of solar fuels.



LICROX project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 951843

Responsibilities

- The candidate will conduct independent research as well as in collaboration with group members of the group and/or the project.

Requirements

- The candidate must have a PhD in chemistry/ chemical engineering.
- We are looking for a highly motivated, responsible and creative individual in the domain of MOLECULAR Chemistry.
- The candidate must submit the following documents: (a) a CV (specifying any relevant experience, along with a detailed description of previous accomplishments); (b) a cover letter highlighting the interest in the position, the reasons for applying to our group, his/her particular strengths & weaknesses, future career plans, hobbies, self-motivation and ability to work on a team; (c) a short description of previous research: (d) names and contact addresses of at least two referees that might be willing to write down a recommendation letter.
- The candidates must have a very good academic record and high level of English.

Valued qualities:

- Skills in the fields of coordination chemistry, electrocatalysis and construction of photoelectrochemical cells.
- Capable of working in a team, decision making, creative thinking and problem solving.
- The candidate should be a motivated person, open-minded, dynamic and capable of working independently as well as in a team.
- Strong commitment to scientific research in a competitive environment.

We offer:

- 1-year contract that can potentially be renewed for an extra year
- A full-time employment contract.
- Remuneration according to individual's qualification/experience
- Annual salary split into twelve monthly payments
- Incorporation: July 2022

Contact: positions@iciq.es