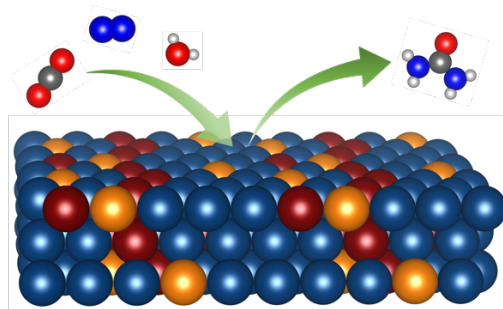


3-year PhD position

Project: Computational design of nanomaterials for N₂ and CO₂ catalysis to urea

The position will be ascribed to a highly collaborative project involving universities and research centers of different countries from Europe and USA aiming at developing strategies for the green synthesis of fertilizers.



Research project, main tasks, and responsibilities of the applicant

We are looking for a motivated and enthusiastic student with background in chemistry, nanoscience, physics or similar with interest in computational chemistry and/or material science modeling. *The PhD student will be involved in the in-silico design of improved new catalysts for the electrochemical conversion of CO₂ and N₂ to urea.* Along the project the student will be responsible to:

- Apply quantum chemical simulations to perform a computational screening of potential new candidates.
- Exploit and disseminate the results in conferences, workshops, and scientific articles

Salary:

The salary *per year* will be 19.000 (1st year), 21.000 (2nd year) and 24.000 Euros (3rd year)

Academic background and Skills

Education:

- Master's degree in Chemistry, computational chemistry, nanoscience or similar.

Additional competences required

- Expertise in quantum mechanical simulations, Linux and python programming.
- Good level of oral and written English and team working skills

How to apply

All applications must send an e-mail to Xavier Solans-Monfort (Xavier.solans@uab.cat) and Mariona Sodupe (mariona.sodupe@uab.cat) including a CV and contact details

Application deadline: June 30, 2023