



Martí Franquès Research Fellowship Programme 2025

Ref. 2025PMF-PIPF-01



General Information

Research Group: Innovation in Catalysis (InnCat), URV

Supervisors: Prof. Montserrat Diéguez, Prof. Oscar Pàmies and Dr. Maria Biosca

Contract Duration: 4 years (full-time)

For more information see [2025PMF-PIPF-01](#)



Research Topic

Catalytic Approaches for the Sustainable Production of High-Value Products

This project focuses on developing innovative catalytic solutions for the sustainable production of high-value products. By optimizing chemical processes, the goal is to enhance efficiency, reduce environmental impact, and facilitate the creation of industrially relevant chemicals. The research will concentrate on designing advanced catalysts using both experimental and computational techniques. Key strategies include the use of earth-abundant metal catalysts and flow chemistry to improve sustainability, cost-efficiency, and recyclability. Computational tools will aid in designing catalysts, predicting reactivity, and advancing the catalyst discovery process. Combining experimental and computational approaches will deepen our understanding of reaction mechanisms and improve catalytic systems for organic synthesis, providing new sustainable methodologies. The ultimate aim is to contribute significantly to sustainable chemistry by developing more efficient and cost-effective catalytic systems.

For any inquiries, please feel free to contact:



Dr. Maria Biosca
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Candidate Profile

Graduate in Chemistry or related fields, previous experience in organic and/or organometallic synthesis at the Master's level and a good level of English will be valued. Knowledge in organic chemistry, catalysis, NMR, and experimental design is required. We are looking for an autonomous, rigorous person with the ability to work in a team, meet deadlines, and establish collaborations, as well as someone with an innovative and creative mindset.

In case of interest

Submit your application online via:

<https://appsrecerca.urv.cat/cgi-bin/programes/application/inici.cgi?conv=2025PMF-PIPF-idioma=ENG>



DEADLINE

13 June 2025
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