

# Postdoctoral Position (ERC-CoG “BECAME”)



The group of [Prof. Martín Fañanás-Mastral](#) is seeking for a **Postdoctoral candidate** with strong interest in **Organometallic Chemistry and Catalysis**. This is an excellent opportunity to join the project [ERC-CoG BECAME](#), a cutting-edge project aimed towards the development of a new technology for energy efficient and sustainable conversion of light alkanes.

BECAME

*Bimetallic Catalysis for Diverse Methane Functionalization*



European Research Council  
Established by the European Commission

**Description:** The overall aim of BECAME is the development of a new paradigm in catalysis which can provide new synergistic catalytic processes that allow methane (and additionally small saturated hydrocarbons) to be directly converted into high-value products through synergistic bimetallic catalysis. Key efforts will be put on the mechanistic understanding and controlling of each catalytic step to perform advantageous catalytic C-C bond forming reactions through alkane functionalization processes.

The applicant will work on the development of catalytic processes that allow direct methane functionalization by using it as a methylating reagent in a variety of C-C bond forming reactions.

**Requirements:** We seek outstanding individuals awarded with a PhD in Chemistry with initiative, creativity and team-working ability to work in a dynamic environment to demonstrate opportunities in the field of organometallic catalysis.

Experience in **Synthesis and Organometallic Catalysis** is essential. Training in high-pressure chemistry is highly desirable.

High quality publications will be highly considered. Good communication skills and proficiency in written and spoken English are essential.

## Recent publications

- Copper-Catalyzed Enantioselective Allylboration of Alkynes: Synthesis of Highly Versatile Multifunctional Building Blocks. *Angew. Chem. Int. Ed.* **2019**, *58*, 18230
- Synthesis of Stereodefined Borylated Dendralenes through Copper-Catalyzed Allylboration of Alkynes. *Angew. Chem. Int. Ed.* **2018**, *57*, 9945
- Synergistic Copper/Palladium Catalysis for the Regio- and Stereoselective Synthesis of Borylated Skipped Dienes. *ACS Catal.* **2017**, *7*, 5340

**Research Center:** The research will be carried out at the CiQUS ([www.usc.es/ciqus/en](http://www.usc.es/ciqus/en)), a new research center which belongs to the University of Santiago de Compostela (Spain).

**Starting Date and Term:** The position is available **starting from November 2020** onwards (flexible) for a term of 1 year, with the possibility of extension.

**Applications:** Applications should be sent directly to Prof. Fañanás-Mastral ([martin.fananas@usc.es](mailto:martin.fananas@usc.es)) including a brief CV (maximum two pages), indicating in the subject **“BECAME\_POSTDOC2”**.

The name and email of a contacting professor/s or researcher/s that know the candidate should be provided. Reference letters for preselected candidates will be required.

**Deadline: October 15, 2020**