

Postdoctoral Open Position

ORGANIC SYNTHESIS OF FUNCTIONAL MOLECULES FOR COMBINATORIAL DISCOVERY OF SOLAR CELL MATERIALS

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Position offered

We offer a position for a postdoctoral researcher in the framework of the project “Combinatorial discovery of functional interfaces for stable and efficient organic photovoltaic cells” funded by the Ministerio de Ciencia e Innovación as part of the Ecological and Digital Transformation Programme.

Main Tasks and Responsibilities

The successful candidate’s role will be the preparation, purification and characterization of new organic molecules that will form part of a library of components for organic solar cells. The chemistry will involve use of the principles of green and sustainable chemistry for the preparation of the molecules, and for their processing. The project includes elements of flow chemistry and accelerated discovery. The candidate will take an active role in the design of the molecules and the materials, and in the synthetic routes to make them, and will have the opportunity to collaborate fully in the preparation of the devices made from the materials as part of the team aiming to discover new materials for solar cells. They will also develop their mentoring skills, overseeing more junior members of the team, and they will be mentored in paper and grant writing, thereby developing their career skills.

Requirements

- PhD degree (in Chemistry)
- Experience in organic synthesis of heterocycles, and aromatic coupling reactions
- Thorough knowledge of the habitual characterization of organic compounds
- Useful to have knowledge of absorption and/or fluorescence spectroscopy
- Knowledge of literature searching tools and chemical databases
- Passion for sustainable chemistry
- Good communication skills and openness for Teamwork

Conditions

- The contract will be full time.
- Duration of 1 year with the possibility of extension.
- The starting date will be from December 2022

How to apply

The selection process will be continuous until a good candidate is found. Interested persons should send an email to David Amabilino (amabilino@icmab.es) attaching:

- CV
- Letter of motivation
- Contact details of a reference person.

ICMAB is an equal opportunity employer committed to diversity and inclusion of people with disabilities.

About the Sustainable Molecular Systems group

The Sustainable Molecular Systems group in the ICMAB is a diverse and inclusive team working on a number of challenges concerned with the capture and storage of energy using molecules that we make. The PIs have a welcoming, supportive and dynamic team that have a wide range of experiences and cultural backgrounds. The creative spirit in the group and passion for science and its communication will provide an environment where talent can be nurtured, developing scientific and transversal skills and providing opportunities to demonstrate them. The PIs have a long track record of mentoring researchers who have found lead roles in academe and industry.

About ICMAB

ICMAB is one of the world's leading Institutes in Materials Science research, located at Campus UAB, very close to Barcelona. The ICMAB's main strategic objectives and missions are to make an impact in the field of new materials for applications in energy, electronics and health through its research and training and empowering the next generation of scientists.

ICMAB provides facilities, state-of-the-art equipment and most importantly, excellent scientists and professionals, to assure you a rewarding environment. In the last years, we have grown up to build up a team devoted to project managing, technology transfer, innovation, communication, maintenance, technical services and administration, to team up with the researchers for the advancement of science.

The diversity of our people and the interdisciplinary research fields related to Materials Science ensures an enriching and inspiring working environment. If you are an enthusiastic and highly motivated person and would like to work in a multidisciplinary and multicultural environment, join us!