

## Postdoctoral Open Position

### **CONVERTING WASTE HEAT TO ELECTRICITY IN MICROELECTRONICS USING SPINTRONIC THERMOPOWER (CONVERT)**

*Can Onur Avci (ICMAB, CSIC)*

#### Position offered

We offer a position for a postdoctoral researcher in the framework of the project “Converting Waste Heat to Electricity in Microelectronics using Spintronic Thermopower (CONVERT)” funded by the State Research Agency of Spain and the European Union in the framework of the “Strategic Projects Aimed at the Ecological Transition and the Digital Transition”.

#### Main Tasks and Responsibilities

The project will focus on thermopower generation using spintronic phenomena to convert waste heat to electricity in microelectronic circuits and its storage in thin film solid-state microbatteries.

#### Requirements

The successful candidate preferentially has prior expertise in the fabrication (magnetron sputtering or a similar technique) and performance testing of thin film solid-state batteries. Experience in electrical and optical characterization of magnetic materials, device fabrication in cleanroom facilities, and knowledge of basic spintronic and (magneto)thermopower concepts will be valued.

#### Conditions

- The contract will be full time.
- Duration of 1 year with the possibility of extension.
- The starting date will be from December 2022, upon agreement.
- Salary: Approximately 35 k€ (yearly, gross)

#### How to apply

The selection process will be continuous until a good candidate is found. Interested applicants should send an email to Can Onur Avci (cavci@icmab.es) attaching:

- CV
- Letter of motivation
- Contact details of two reference persons.

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

## About the MULFOX group

Please visit the MAGNEPIC research team website, within the MULFOX group, for more information: <https://magnepic.icmab.es/>

## 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!