

*Call for Expression of Interest:*

**Marie Curie Individual Fellowship for post-docs**

The Radiation Detector Group (RDG) invites PhD researchers to express their interest in writing a Marie Curie Postdoctoral (PF) Fellowship together with one of the RDG topics— see below. PF helps researchers to gain experience in other countries and disciplines.

The deadline for the expression of interest is 30 June 2022. The actual deadline for submission of the actual proposal is mid-September 2022. For more details, please see ad below. <https://marie-sklodowska-curie-actions.ec.europa.eu/actions/postdoctoral-fellowships>

**Radiation Detectors Group**, at the **Institute of Microelectronics of Barcelona - National Microelectronics Center (IMB-CNM, CSIC)** located in Barcelona (Spain), is looking for candidates to join our group to realize postdoc fellows in the context of the Marie Sklodowska Curie Postdoctoral fellowship.

European Postdoctoral Fellowships are open to researchers currently within or outside Europe who want to work in an EU Member State. The researcher must not have lived, worked, or studied in Spain for more than 12 months during the 3 years prior to the deadline. The duration of the fellowship is 12 to 24 months. The fellow covers the salary of the researcher (plus family allowance). Applicants either hold a PhD degree or have at least four years of full-time equivalent research experience at the moment of the deadline.

**New topics that can be supported:**

- 1) Radiation-hard detectors for FLASH therapy
- 2) Ultra-thin neutron detectors for radiotherapy
- 3) Nanodosimetry for improving radiobiology models

**Research center context:**

The student will work in the IMB-CNM that is situated on the campus of the Autonomous University (UAB). IMB-CNM is the main microelectronics public center in Spain and has one of the largest Clean-Room facilities for researching in the Southern Europe. It has full capability to process its own CMOS technologies as well as photon/particle detectors. More information on CNM activities at: <http://www.imb-cnm.csic.es/>. The CNM offers support during the application procedure to the candidates.

**Institute of Microelectronics of Barcelona IMB-CNM (CSIC)**  
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Secondments of up to 6 months to a second lab are possible. In case of funding, the postdoc fellow will receive training in the IMB-CNM in radiation detector design, fabrication, and characterization as well as in the basic principles of radio and hadron therapy.

**Student Profile:** we are looking for a motivated PhD with:

- PhD in Physics, Micro and Nano technology, Medical Physics, or related field.
- Previous experience in radiation detectors is an asset.
- Experience in Medical physics, proton/hadron therapy, and radiation detectors are valued.

**Who can apply?** Researchers who:

- have **completed a PhD** or will complete it at the date of the EU call deadline
- have **a maximum of 8 years full-time** equivalent experience in research at the time of the EU call deadline. Years of experience outside research and career breaks (e.g. due to parental leave 89), will not count towards the amount of research experience.
- have **not resided or carried out their main activity** in Spain for more than 12 months in the 3 years immediately prior to the EU call deadline.

**Contact and additional information:**

Interested candidates should send their CV and a short motivation letter before 30<sup>th</sup> June 2022 to:

-About the 1&2-topics: **Dr. Consuelo Guardiola** ([consuelo.guardiola@imb-cnm.csic.es](mailto:consuelo.guardiola@imb-cnm.csic.es)) and **Dr. Celeste Fleta** ([celeste.fleta@imb-cnm.csic.es](mailto:celeste.fleta@imb-cnm.csic.es)).

-About the 3<sup>rd</sup>-topic: **Dr. Gemma Rius** ([gemma.rius@csic.es](mailto:gemma.rius@csic.es)) and **Dr. Consuelo Guardiola** ([consuelo.guardiola@imb-cnm.csic.es](mailto:consuelo.guardiola@imb-cnm.csic.es))

- This offer can be found on: <https://www.imb-cnm.csic.es/en/about-center/careers/open-positions>
- More information on IMB-CNM: <https://www.imb-cnm.csic.es/en/>