

# Ph. D. GRANT OFFER

The **Radiation Detectors group** at the **Microelectronics National Center (IMB-CNM)** located in Barcelona, Spain, is looking for a candidate to join our group to realize a **Ph. D. in Physics** to work on Soft X-Ray Low Gain Avalanche Detectors with 55um pitch for Imaging Applications using the Timepix4 ASIC.

The main research activity is the development of Low Gain Avalanche Detectors for fine pitch radiation detectors including technological and electrical simulation, detector design, technology setup, fabrication, and characterization for applications at **Synchrotron Light Sources**, in **Medical Physics** and at the **LHCb experiment at CERN**.

The IMB-CNM is situated on the campus of the Autonomous University (UAB) and contains the largest clean room facilities in Spain with full capability to process its own CMOS technologies as well as photon/particle detectors.

The selected candidate is expected to travel for short periods for testing campaigns and presentation at international conferences. All the work will be done in the framework of the CERN RD50 collaboration.

**TERM OF APPOINTMENT:** 3 years.

**TO APPLY:** Applications are accepted contacting directly by email: **Dr. Giulio Pellegrini** ([giulio.pellegrini@csic.es](mailto:giulio.pellegrini@csic.es)) or **Dr. Neil Moffat** ([neil.moffat@csic.es](mailto:neil.moffat@csic.es)), and must include a curriculum vitae and a confidential letter of reference<sup>1</sup>. Subject must include "PhD Grant Offer Application". Candidates must be EU citizens or hold a valid Working (Employment) Schengen Visa.

Documents/materials must be submitted as PDF files.

Selected candidates will be contacted by December 2021.

**POSITION AVAILABLE:** Expected start date January 2022.

**BASIC QUALIFICATIONS:** Master in Physics or related field.

More information on IMB-CNM activities at:

IMB-CNM activities: <http://www.imb-cnm.csic.es/>

Rd50 activities: <http://rd50.web.cern.ch/rd50/>

[1] <https://arxiv.org/abs/1704.08666>



<sup>1</sup> All letters will be treated as confidential and the material will be treated according to the GDPR (2018/1725).