The Institute of Microelectronics of Madrid (IMM) is a centre for multi-disciplinary research in nanoscience and nanotechnology. It belongs to the Consejo Superior de Investigaciones Científicas (CSIC), the Spanish research council.

The investigation in semiconductor nanostructures is an exciting research area driven by the interesting physics and its potential applications in quantum information technologies. Within Spanish and E.U. projects, we are working towards the realization of single photon emitters with advanced fabrication methods, developing processes for obtaining isolated nanostructures located at specific sites in photonic band-gap microcavities.

For this project, we have an open position for a

**Post-doctoral scientist**

**Nanofabrication tools for III-V semiconductors**

**Activity**
- To carry out the development of processes leading to fabrication of single photon emitters based on semiconductor nanostructures. A variety of nanofabrication technologies as molecular beam epitaxy (MBE), electron beam and AFM lithography, reactive ion etching will be employed.
- The candidate is expected to actively participate in the ongoing research. There will be a particular responsibility for developing improved methods for fabrication, requiring good teamwork in an active research environment.

**Profile**
It is required to have completed a PhD in experimental physics, materials science or related areas. Experience in nanofabrication techniques and characterization tools is necessary. A good command in English is also required.

For further information and applications, please contact:

Prof. Luisa González. e-mail: luisa@imm.cnm.csic.es
Dr. Jorge M. García. e-mail: jorgem@imm.cnm.csic.es
Ph.: 34-91-8060700
Fax: 34-91-8060701
Address: Instituto de Microelectrónica de Madrid (CNM-CSIC).
Isaac Newton 8 –PTM, 28760-Tres Cantos, Madrid (Spain)

A description of facilities and research activities at IMM is available at [www.imm.cnm.csic.es](http://www.imm.cnm.csic.es)