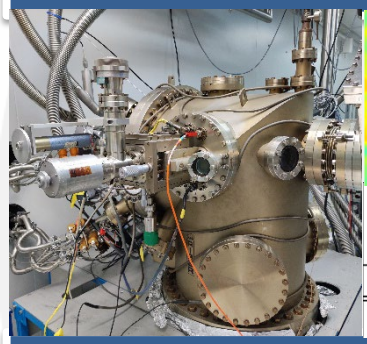
Postdoc Position

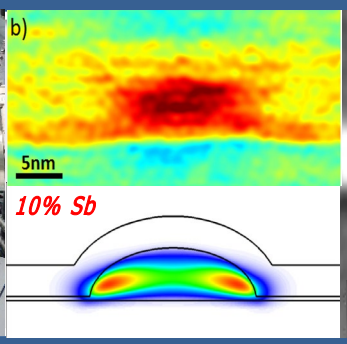
Development of novel Telecom single photon sources

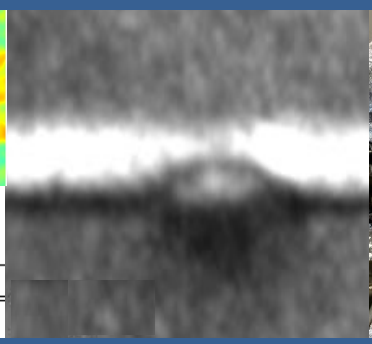
The Institute for Optoelectronic Systems and Microtechnology (www.isom.upm.es) of Universidad Politécnica de Madrid (ISOM-UPM), a Spanish major scientific facility in optoelectronics, **offers a position for a highly motivated postdoc to contribute to a breakthrough project on the subject of quantum communications.**

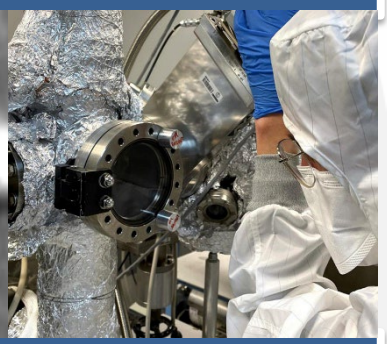
The postdoc will work on the molecular beam epitaxy (MBE) of novel Sb-containing quantum dot architectures with emission at the telecom O and C-bands, as well as in the structural and optical characterization of the nanostructures. The work will take place within the framework of regional, national and European projects.

The research will be carried out at ISOM-UPM, but in close collaboration with groups providing state of the art transmission electron microscopy TEM (D.González, IMEYMAT-UCA) and quantum nano-optics simulation and characterization (J.M.Llorens and B.Alén, IMN-CNM-CSIC), as well as with renowned partners outside Spain.









REQUIREMENTS:

- A PhD in the area of semiconductor nanostructures, preferentially in the epitaxial growth and characterization of quantum dots for single photon emission.
- A degree in: Physics, Electrical/Telecommunication/Material Engineering or in a similar area.
- Full professional competence in English.
- Ability to work both independently and collaboratively.

JOB CONDITIONS:

- Two-year contract; extendable.
- Annual Gross Salary: 30,000 € - 35,000 €; commensurate with experience.
- Health and Social benefits included according to Spanish law.
- Work in a highly competitive international environment.

APPLICATION:

- Send **a short CV**, **a short motivation letter** and copy of your **PhD and university degree certificate** to Jose María Ulloa (jmulloa@isom.upm.es) or Sergio Fernández (sergio.fernandezga@upm.es)

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA E INNOVACIÓN
EU Next Generation EU
#NextGenerationEU #EUBudget
Comunidad de Madrid