VNiVERSiDAD D SALAMANCA

Junta de Castilla y León
Consejería de Economía y Hacienda

Europa impulsa nuestro crecimiento

Cofinanciado por la Unión Europea

Deadline January 12th

Postdoctoral Research Position

NanoTECH group, Salamanca University

Quantum materials for nanodevices and next-generation solar cells

About us

NanoTECH is a diverse research group comprising experts from various departments at Salamanca University, including applied physics, fundamental physics, and chemistry-physics. Our primary focus is on **novel low-dimensional systems for fundamental physics.**

We are currently on the lookout for highly skilled scientists with a robust foundation in 2D materials, semiconductor physics, and optics. The applicant will work in the development of **graphene devices in the hydrodynamic regime** for high-power electronics. The study will extend to TMDs for **producing high-performance ultra-thin solar cells**, alongside the exploration of 2D-perovskites for potential integration into solar cells. In addition to this, the applicant will work towards establishing a methodology for the efficient development and implementation of metallic contacts in bidimensional devices.

Applicants with prior experience in the fabrication of **devices based in stacked 2D materials** in clean room facilities are particularly encouraged to apply. The preferred starting date for the successful candidate is on **01/05/2024.**

Salary & benefits

The positions are available for a three-year term, starting with a competitive gross salary of €27,960 p/a. Postdoctoral research associates (PDRA) will receive comprehensive health insurance coverage and internal funding to support the development of their individual research endeavours, including a travel allowance. PDRAs will have the opportunity to independently pursue their research projects within a stimulating environment, benefiting from the resources and expertise provided by the Nanotechnology group.

Eligibility

We are seeking applications from exceptionally accomplished young scientists with a demonstrated record of excellence. Eligible candidates must hold a PhD degree in **physics, semiconductor physics, material science, or a closely related field**. A robust background in working with 2D-like materials and familiarity with **clean room** facilities is essential. Proficiency in spoken and written English is required

How to Apply

Interested candidates are encouraged to contact us for administrative guidance and to schedule interviews:

Dra. Ana Pérez
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Prof. Enrique Diez
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The position will remain open until January 12th. Informal queries may be directly addressed to Dra. Ana Pérez and Prof. E. Diez

http://nanotech.usal.es