

## Postdoctoral position on spin physics in graphene-based nanostructures (theory)

Mon, 2020-01-27 17:14 - [Geza Giedke](#) [1] **At:** DIPC, Donostia-San Sebastián, Spain  
**Deadline:** 21 February, 2020

### Location

Donostia International Physics Center Paseo Manuel de Lardizabal 4  
Donostia-San Sebastián 20018 Spain

Within the **EU-funded research project “SPin Research IN Graphene” (SPRING)** under the Horizon 2020 research and innovation programme FET Open (grant agreement No 863098), **we are looking for a postdoctoral researcher** to

- develop theory for electron and nuclear spin states in open-shell graphene nanostructures,
- study their relaxation and coherence timescales,
- analyse spin-spin interactions in extended graphene-based systems, and
- propose ways for electrical detection and manipulation of the spin states.

The work will be carried out at the **Donostia International Physics Center (DIPC)** in close collaboration with the experimental partners of the SPRING consortium from CIC nanoGUNE, Technical University of Delft, University of Santiago de Compostela, IBM Research, and University of Oxford.

Candidates should be highly motivated researchers with a PhD degree and a strong background in theoretical solid-state physics, excellent communication skills and English knowledge. Previous experience with spin physics and quantum information theory would be an advantage.

The offered contract is initially for one year, and renewable on a yearly basis within the project period based on performance and availability of funding. The annual salary is ~34.780 EUR before taxes. To apply for the position, interested candidates need to submit a cover letter with a statement of interest, curriculum vitae, and contact information of two references. **The application deadline is 21/02/2020.**

Informal inquiries can be directed to any of the team's senior staff members: [thomas\\_frederiksen \[at\] ehu \[dot\] eus](mailto:thomas_frederiksen@ehu.eus) (Dr. Thomas Frederiksen), [wmbgalea \[at\] ehu \[dot\] eus](mailto:wmbgalea@ehu.eus) (Dr. Aran Garcia Lekue), [daniel \[dot\] sanchez \[at\] ehu \[dot\] eus](mailto:daniel_sanchez@ehu.eus) (Dr. Daniel Sanchez-Portal) and [geza \[dot\] giedke \[at\] dipc \[dot\] org](mailto:geza.giedke@dipc.org) (Dr. Geza Giedke). More information about the EU-funded SPRING project can be found at <https://www.springfetopen.eu> [2] and <https://cordis.europa.eu/project/id/863098> [3].

- [Postdoc](#) [4]

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