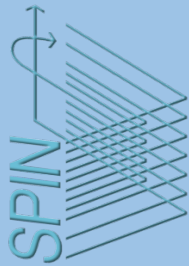


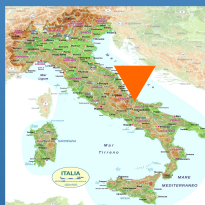
OPENING: Two Post-doc Positions



Consiglio
Nazionale
delle
Ricerche

Institute for
Super-
conducting
and
innovative
materials ad
devices

(CNR-SPIN,
Chieti)



Two Post-doc positions focused on “FIRST-PRINCIPLES SIMULATIONS FOR FERROIC MATERIALS”

available in the group of

Dr. Silvia Picozzi

(Consiglio Nazionale delle Ricerche, CNR-SPIN Chieti, It).

Topic: the postdocs are expected to perform ab-initio simulations based on Density Functional Theory in one (or more) of the following areas:

- 1) **magnetism, ferroelectricity and multiferroicity** in **2D-materials** (monolayers, few-layers and heterostructures);
- 2) **spin-electric coupling** in magnetic molecules and/or defects in semiconductors, of interest for **quantum technologies**;
- 3) **machine learning interatomic potentials** and **high-throughput** calculations for ferroelectrics/(anti-)ferromagnets/multiferroics.

Funding: The positions will be funded by the Next-Generation EU program within the (Italian) National Resilience and Recovery Plan (PNRR).

Salary: **1.600-2.000** Euros/month (net), depending on the candidate experience .

Duration: 18 months (renewable upon funding availability).

Start: February-April 2024.

Location: the research activity will be carried out at Consiglio Nazionale delle Ricerche CNR-SPIN @ University of Chieti (Italy)

Required Expertise: A **PhD in Physics, Chemistry, Materials Science** or related disciplines is needed (**defense date: before November 15th, 2023**). Deep knowledge of Quantum Mechanics and Solid State Physics is mandatory. Extensive **experience in materials modelling (in particular on Density Functional Theory)** is needed; previous activity in magnetism, ferroelectricity or correlated materials is very welcome.

Contacts: please contact Dr. Silvia Picozzi via email at [silvia.picozzi at spin.cnr.it](mailto:silvia.picozzi@spin.cnr.it) by sending your **CV** and a **list of publications**. Use as e-mail subject: “**PNRR Postdoc Applications**”

Further info on the group:

<https://sites.google.com/site/silviapicozzi/>