

Post-doctoral Fellowship - Heusler nanostructures

The Laboratory of Materials and Low Temperatures (LMBT) of the Institute of Physics Gleb Wataghin (IFGW) of the State University of Campinas (UNICAMP), Campinas, Brazil, has an open position for a postdoctoral fellowship, with FAPESP scholarship, for candidates with experience in nanostructured materials. The researcher will work under the supervision of Prof. Dr. Kleber Pirota and Profa. Dra. Fanny Béron.

This scholarship is part of an international collaboration project between São Paulo and Portugal (FAPESP-FCT [Foundation for Science and Technology of Portugal]). The project, "Dimensionality effects in the physical properties of Heusler and magnetostrictive intermetallic materials: from 1 to 3D architectures", is being developed together with the University of Porto, as well as the University of the Basque Country / Euskal Herriko Unibertsitatea (UPV / EHU) and the Massachusetts Institute of Technology (MIT).

The general objective is the study of the dimensionality reduction effects on intermetallic alloys with promising magnetic properties via the growth of nanowires / nanostructures by the metallic flux method in nanoporous alumina templates. The project includes the investigation of alloys exhibiting expressive behavior of magnetostriction, magneto-calorimetry and spin polarization.

The candidate must have proven experience in at least one of the following areas: Heusler alloys, nanostructured materials, material growth, magnetic properties and experimental materials characterization techniques.

The scholarship will last 36 months. This opportunity is open to candidates of any nationalities. The selected candidate will receive a FAPESP's post-doctoral fellowship of R\$ 7,373.10 monthly and an independent research contingency fund, equivalent to 15% of the annual value of the fellowship.

Those interested must send the following documents by email to lmmt@ifi.unicamp.br until 03/24/2019, indicating "Post-doctoral Fellowship FCT/FAPESP" in the title:

- Curriculum vitae ;
- Letter of interest highlighting your previous experience in the project area;
- Contact of two references.

Information about the project: <https://bv.fapesp.br/en/auxilios/101740>. Applicant requirements and scholarship benefits: www.fapesp.br/en/postdoc.