



Universitat de Girona
Materials Science and Thermodynamics

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Information for prospective DOCTORATE STUDENTS

We offer a grant during six months beginning next September. The compromise of the student is to apply for a research fellowship.

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The aim of this research is the development of ferromagnetic Heusler type alloys (based on Ni-Mn-X ternary systems, X=Sn, In), of Fe-Pd, and alloys based on Co and/or Fe, ribbon, wire and microwire shaped by means of ultrarapid quenching, like melt spinning, modified Taylor and Taylor-Ulitovski techniques respectively, and the study of several of their functional relevant properties. Furthermore, magnetic shape memory alloys are expected to be excellent materials for advanced technological applications due to their unconventional properties.

The PhD Thesis will be realized in the University of Girona (near Barcelona, Spain). Research activity will be developed within the group of Materials Science and Thermodynamics. It will comprise experimental and theoretical work and collaboration with other laboratories.

References :

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3. J.L. Sánchez-Llamazares, T. Sánchez, J.D. Santos, M.J. Pérez, M.L. Sánchez, B. Hernando, Ll. Escoda, J.J. Suñol and R. Varga, Appl. Phys. Lett. 92 (2008) 012513.
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