Center for Molecular Materials and Biological Chemistry

University of Santiago de Compostela (www.usc.es)

New thermoelectric materials from nanostructures of strongly correlated electron systems

1 Post-Doc and 1 PhD position

to collaborate in the project 2D-THERMS ('Design of new thermoelectric devices from layered and field-modulated nanostructures of strongly correlated electron systems), financed by the European Research Council through the Starting Grant 2009 call.

The research will involve fundamental aspects of solid state chemistry and physics, including the fabrication of thin-films of oxides and nitrides, their structural/morphological characterization, and the determination of the electronic and thermal properties.

The project will be developed at the new Institute for Molecular Materials and Biological Chemistry, of the University of Santiago de Compostela (http://www.usc.es/campusvidaci/eng/centro-singular-ciqus.html), that will provide the ideal atmosphere for collaborations and exchange of ideas with other groups.

Previous experience with growth/characterization of films, optical lithography and measurement of transport properties is highly desirable for the post-doc position.

Applications including CV and a statement of scientific interests must be

submitted by email.

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