UMR CNRS 6174

PhD Position

A doctoral position will be available from October 2013 up to October 2016 in the Time and Frequency department of the FEMTO-ST Institute, Besançon, France. With its 7 departments the Institute is a multi-physics exciting environment of 650 employees, located in a dynamic city, in the exceptional open nature landscapes of the Franche-Comté region.
The position is funded by Région de Franche Comté to pursuit and reinforce recent investigations on bulk acoustic wave resonators at cryogenic temperature. Their unique properties open up new applications in different fields starting from the ultra stable oscillators to the hybrid quantum systems. For all these areas of research, new low-loss devices can play a game changing role. The successful candidate will be involved in designing a state-of-the-art cryogenic oscillators on one hand, and different cutting edge physics experiments (i.e. opto-mechanical parametric cooling, etc) on another. Optoelectronic-based means would have to be set up for measurements and/or excitation.
This work will imply a collaborative part with Dr. A. Heidmann's group at the Laboratoire Kastler Brossel, Paris, and Prof. M. Tobar's group at the University of Western Australia, Perth.

We are looking for a young scientist highly motivated by physics measurements and experiments involving optoelectronics among others. Particularly relevant skills can include a background in Physics, Electronic and Mechanical Engineering, Optics.
Knowledge of French language is not required but a good level in spoken and written English is mandatory.

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