Postdoc in ILM Institute

In the frame of collaborative national project (Idex breakthrough program (Sapphire Optics for Gravitational Astronomy, Acronym: OSAG)) involving ILM (Institut Lumière matière, UCB Lyon1, CNRS UMR 5306 ) and LMA (Laboratoire des matériaux avancés IPNL), the aim is to bring solutions to the technological bolt limiting the development of new generation of gravitational waves (GW) detection and to demonstrate the potential through the development of large sapphire crystal by crystallization from the melt and technology control.

The grant postdoc position is in the ILM institute (luminescence team, http://ilm.univ-lyon1.fr). The position requires a Ph.D, expertise in materials science and especially crystal growth from the melt. Experience on sapphire crystal growth and technology is a plus, and excellent communication skills (speaking and writing French and English). You will be part of an ambitious research program transforming theoretical predictions to executable experiments.

**Main duties and responsibilities include:**

You will develop crystal growth technology. You will look to grow homogeneous large crystals with improvements in efficiency, properties, and quality for gravitational waves application. You will perform, analyze, prepare report and publish results regarding large crystals growth and GW application. You will perform complementary large sapphire crystal characterization. You will perform the data-analysis and interpretation and you will contribute to planning and execution of the different experimental run and exchange with partners.

**We offer:**

As a Postdoc you will have access to:

- State-of-the-art facilities including ILM crystal growth facilities
- Enriching career promoting environment.
- Innovative and dynamic atmosphere
- Competitive salary (depending on the experience )

**Start date:**
Flexible, depending on candidate (but before october 2020)

**Term of employment:**
Fixed-term (CDD)

**Work rate:**
100%

**Duration:**
1 year, renewable

**Contact:**
For further information please contact:
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