POST-DOC and SENIOR RESEARCHER POSITIONS IN THE FIELD OF:

Magnetism in organic and organometallic materials with emphasis on 2D hybrids.

The Regional Centre of Advanced Technologies and Materials (RCPTM) is a scientific and research center connected to the Faculty of Science, Palacky University, Olomouc in Czech Republic.

We announce the opening of new positions for scientists experienced in the field of (nano)materials with focus on the magnetism in organic and organometallic materials with emphasis on graphene derivatives and hybrids.

The research program:

The research work focuses on an interdisciplinary field aiming at the synthesis and understanding of the magnetism and spin states in graphene derivatives (or other 2D materials) and hybrids thereof with organometallic molecules (or other inorganic nanophases), accompanied by in-depth structural and physicochemical characterization. The magnetic properties and spin states of the synthesized materials will be thoroughly studied by a full gamut of appropriate techniques, such as electron paramagnetic resonance, SQUID, PPMS and Mossbauer, when applicable. The applicant will become part of a focused and motivated international team with state-of-the-art equipment (see www.rcptm.com).

The applicant responsibilities:

- Synthesis and study (measurements and in-depth analysis) of the magnetic properties in graphene derivatives (or other 2D materials) and hybrids thereof with organometallic molecules or other inorganic nanophases.
- Synthesis of organometallic small molecules (*i.e.* single molecule magnets, spin cross-over molecules)
- Fitting of the experimental results by theoretical models.
- Very good knowledge of one or more of the following techniques: SQUID (DC & AC magnetization, FC-ZFC), EPR, Mossbauer.
- Cooperation with theoreticians and synthetic chemists with experience on graphene chemistry.
- Manuscript writing
For the position of the senior researcher compilation and writing of high quality manuscripts for top ranked journals is of primary importance, as well as supervision of post docs and students. Limited teaching activities might also apply.

The applicants must hold a PhD in the fields of chemistry, bioinorganic chemistry, materials science, chemical engineering or relevant.

RCPTM employees join in Social Insurance (Health insurance, Employee’s pension insurance, and Employment insurance). The starting salary depends on qualifications and may vary from 1400 to 2200 euros per month (net salary after taxes). Performance-based bonus may apply.

Submit an application/motivation letter and curriculum vitae including a list of publications to: giorgio.zoppellaro@upol.cz. Please, indicate in the subject of the mail the position which you are applying for (post doc or senior researcher); i.e. “application for post doc”, or “application for senior researcher”.

2 Letters of recommendation should be sent directly to the same email address.

Submission deadline: February 28

Selected applicants will be invited for an oral/Skype interview, typically within 2-3 weeks upon application submission.

Relevant References in the Field


