

Postdoctoral researcher in Chemistry.

General information

Workplace: Laboratoire de Chimie de Coordination of CNRS (UPR 8241) at Toulouse

Date of publication: September 25th 2018

Type of contract: fixed term contract

Contract period: 1 year

Expected date of employment: January 1st 2019

Proportion of work: 100 %

Remuneration: 2530 € gross salary / month (2033 € net salary)

Desired level of education: PhD.

Experience required: Chemist with an experience in coordination chemistry and having defended his/her thesis for less than two years.

Missions

The postdoctoral researcher will work within the framework of an ANR JCJC project named MHYCONIA whose aim is to develop the synthesis of novel multiferroic hybrid coordination networks by solvo-ionothermal approach. He/She will work in Laboratoire de Chimie de Coordination of CNRS and will be part of the team named "Molecular Materials and Supramolecular materials" managed by Jean-Pascal Sutter (DR). He/she will work under the supervision of Emilie Delahaye (CR).

For further information, please contact Emilie Delahaye (emilie.delahaye@lcc-toulouse.fr)

Activities

The postdoctoral researcher will contribute to different activities such as:

- conception/elaboration and characterization of ligands and coordination networks,*
- monitoring of the physical measurements (magnetic, optic and ferroelectric properties) realized in collaboration,*
- writing of progress reports and publications.*

The data obtained is part of an ANR JCJC research program and will validate the concept proposed in this project around multiferroic hybrid materials.

Skills

- chemist specializing in coordination chemistry and organic ligand synthesis,*
- an experience in solvothermal synthesis and/or analysis of ferroelectric properties will be appreciated,*
- fluent English both written and spoken,*
- ability to work in a team and independently,*
- critical evaluation, ability to communicate, summary evaluation.*

Context of work

The postdoctoral researcher will work within the Laboratoire de Chimie de Coordination (LCC) which is a dedicated CNRS laboratory.

The postdoctoral researcher will work also in collaboration with Institut de Physique et Chimie des Matériaux de Strasbourg for ferroelectric measurements and certain physical measurements.

Facilities: chemical analysis, thermal analysis (TDA/TGA, DSC), X ray diffraction (powder and single crystal diffractometers), magnetic measurement (SQUID), electronic microscopy (SEM), nuclear magnetic resonance (liquid and solid NMR), electronic and vibrational spectroscopies (UV-Visible and Infrared).

Constraints and risks

Short periods of travel within France and abroad should be expected.

Supplementary information

To apply, please send CV and motivation letter to Emilie Delahaye (emilie.delahaye@lcc-toulouse.fr).

Closing date for the receipt of applications: November 30th 2018.