

FORM FOR EMPLOYERS

INSTITUTION: Adam Mickiewicz University in Poznań

CITY: Poznań

POSITION: Research adjunct

DISCIPLINE: Chemistry,

POSTED: 19th of December, 2018

EXPIRES: 1st of February, 2019 or until the position is filled

WEBSITE: www.amu.edu.pl

KEY WORDS: computational physics/chemistry, magnetism, adjunct, Faculty of Chemistry

DESCRIPTION (field, expectations, comments):

- Carrying out calculations using computer programs based on the DFT/ab initio methods, including geometry optimizations, analysis of the transition from the multispin Hamiltonian to the giant-spin Hamiltonian, symmetry of Hamiltonians, role of the spin-orbit coupling in description of molecular nanomagnets, sources of magnetic anisotropy at the molecular and global level, and comparative analysis of semiempirical results and computational ones.

Applicants must meet the following criteria:

- PhD degree in chemistry or physics;
- knowledge of foundations of optical and electron magnetic resonance spectroscopy, and magnetism of 3d/4f ions, as well as effective spin Hamiltonians, tensor operators, group theory and symmetry;
- documented experience in studies of 3d/4f ions and molecular nanomagnets using semi-empirical or DFT/ab initio methods
- fluency in English;

Position is offered at the Faculty of Chemistry, Adam Mickiewicz University in Poznań. Employed person will perform research tasks in the project "*Rational design of molecular nanomagnets: synthesis, characterization, theoretical description and computational modeling of their properties*" funded by the National Science Centre, contract No. UMO-2016/21/B/ST4/02064.

DURATION: Employment is planned for a period of 12 months.

SALARY: negotiable but not more than 5400 PLN/month (gross).

Required documents:

- application;
- personal questionnaire (form to download);
- curriculum vitae/resume;
- copy of the PhD diploma;
- information on academic, educational, and organizational achievements of the candidate, list of publications;
- recommendation letter from one academic referee;
- statement that if the candidate wins the competition, Adam Mickiewicz University will be his/her primary place of employment (form to download);
- consent to the processing of personal data in a job application for the needs of the recruitment process

Documents in electronic form should be submitted to the project leader:

Professor Czesław Rudowicz: czerud@amu.edu.pl with a copy to: kinga.roszak@amu.edu.pl

The jury reserves the right to contact with selected candidates.

Planned employment of the day 1st April, 2019

Please include in your application one page with the following phrase: "*In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 (Journal of Laws of the EU L*

119/1 of 4 May 2016) I agree to the processing of personal data other than those indicated in Article 221 of the Labour Code (name(s) and surname; parents' names; date of birth; place of residence; address for correspondence; education; previous employment), included in my job offer for the purpose of current recruitment."