

FORM FOR EMPLOYERS

INSTITUTION: AGH University of Krakow

DEPARTMENT: Faculty of Physics and Applied Computer Science

CITY: KRAKOW

POSITION: Research and teaching assistant

DISCIPLINE: Physics

EXPIRES: 29.12.2023

WEBSITE: <https://www.agh.edu.pl/o-agh/praca-w-agh>

KEY WORDS: research assistant, physics

DESCRIPTION (field, expectations, comments, requirements):

The Faculty of Physics and Applied Computer Science at AGH University of Krakow, Poland has an opening for a research and teaching assistant position in the Department of Condensed Matter Physics.

The candidate is expected to contribute to the theoretical research on physical properties (electronic, transport, magnetic, electrochemical), which are responsible for the effects of conversion of various forms of energy in solid state systems, using ab initio calculations (DFT methods). The direct goal of this research is to interpret and predict the physical behaviors of solid state systems on the basis of quantum electrodynamics, taking into account the real features of crystals (disorder, defects, phase transitions), in terms of the search for a new generation of materials for ion batteries. The additional scientific goal of the 1-year project is to learn about and implement calculations of electron transport properties of advanced thermoelectric materials.

Teaching classes conducted by the assistant will include, among others: exercises for the lecture "Fundamentals of solid state physics 2" and a specialized numerical laboratory for one of the lecture "Physics of disordered materials" or "Electronic structure of the condensed phase", where practical knowledge of computational codes used to perform the practical part of the classes is necessary.

24-month contract starts on the 26th February 2024.

REQUIREMENTS:

- 1) has at least a MSc degree or equivalent, obtained in the field of "technical physics" or similar,
- 2) PhD in physics or an open PhD procedure after completion and deposition of the PhD thesis,
- 3) has scientific achievements in the subject of theoretical research of solid state systems for energy conversion, in particular materials for ion batteries, confirmed by publications, presentations at national and international scientific conferences,
- 4) is able to use programming languages (Fortran, C++, Python) and has the ability to perform calculation on large workstations in the UNIX environment,
- 5) has predisposition and experience in teaching,
- 6) has substantive preparation and is ready to teach in specialized topics (solid state physics, electron structure of condensed matter) in the form of computer laboratories, exercises and seminars in Polish and English,
- 7) knows English at a level of at least B-2,
- 8) proven knowledge of the Polish language at the C-1 level, if it is not the mother tongue.

DOCUMENTS REQUIRED

When submitting the application the following documents must be provided:

- 1) application and CV with a personal questionnaire,
- 2) 1 recommendation letter,
- 3) list of scientific achievements, confirming the possession of the required qualifications (list of publications, conference presentations, etc.),
- 4) description of teaching experience,
- 5) certificate of minimum B-2 English language skills,
- 6) certificate of C-1 Polish language skills, if it is not the mother tongue,
- 7) copy of diplomas or other certificates confirming the qualifications held.

DOCUMENTS MUST BE SUBMITTED AT:

Please send the application to the Faculty of Physics And Applied Computer Science AGH, Poland, Kraków, ul. Reymonta 19, III p. room 327 or via email sekretariat@fis.agh.edu.pl till 29.12.2023.

The AGH University will be the candidate's main place of employment.

The AGH University of Krakow does not require you to provide any information or data other than those resulting from the applicable law (name/names, surname, date of birth, contact details, education, professional qualifications and employment history). However, if you choose to include your photograph or any other

information, please fill in and attach this statement of consent to the processing of personal data, which constitutes an attachment to this information.

The controller of your personal data processed in order to carry out the recruitment process for the above-mentioned position is the AGH University of Krakow, al. A. Mickiewicza 30, 30-059 Krakow. You can read the full information concerning the processing of your personal data on the AGH University of Krakow website after going to the "Protection of personal data" tab at (www.agh.edu.pl/ochrona-danych-osobowych).

The University reserves the right not to settle the competition without providing any reason or justification. Winning the competition is not tantamount to ensuring the candidate's employment. The result of the competition serves solely as a recommendation to the Rector in this regard. The final decision concerning the employment will be made by the Rector.

Cracow, on

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name and surname

CONSENT TO PERSONAL DATA PROCESSING
(recruitment - employee)

Pursuant to Article 6(1)(a) of the Regulation (EU) 2016/679 of the European Parliament and of the Council of April 27, 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (General Data Protection Regulation), [OJ EU . L. 2016.119.1, May 4, 2016] hereinafter referred to as "GDPR", **I consent to the processing of my personal data other** than the data mentioned in Article 22¹ § 1 of the Labour Code and contained in my CV and other application documents, and to the reproduction of my physical likeness **for the purposes of recruitment and selection for the position of** (contest notice no.).

In addition, I declare that the request for consent has been presented in a clear and understandable manner and that I have been informed about a possibility of withdrawing my consent at any time as well as about consent accountability. The withdrawal of consent to have personal data processed shall not affect the legality of the processing, which is carried out on the basis of such consent prior to its withdrawal; The consent may be withdrawn by submitting a written representation on consent withdrawal at a place that was indicated in the contest notice as the place for submitting documents.

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Date and signature