

## FORM FOR EMPLOYERS

**INSTITUTION:** AGH UNIVERSITY OF KRAKOW

**DEPARTMENT:** FACULTY OF PHYSICS AND APPLIED COMPUTER SCIENCE

**CITY:** KRAKÓW

**POSITION:** RESEARCH AND TEACHING ASSISTANT

**DISCIPLINE:** PHYSICS

**POSTED:** 13.10.2023

**EXPIRES:** 22.11.2023

**WEBSITE:** <http://www.uci.agh.edu.pl/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 selected candidate is expected to join a project focused on investigation of properties of superconductors with help of *ab initio* methods. The goal is to find and explain the superconducting properties of chosen materials. The goals of the current 1-year stage are to calculate the electron-phonon and superconducting properties of chosen materials, compare them to experimental data and find out what is the key factor of their superconductivity. In addition, the assistant will conduct classes including, inter alia, computer laboratories for the subject of "ab initio methods in solid state physics", therefore it is necessary to have a working knowledge of the calculation codes used in this course (required knowledge of the following calculation methods, supported by the published or prepared papers: plane-wave & pseudopotentials, Linearized Augmented Plane Wave, and Korringa-Kohn-Rostoker with the coherent potential approximation).

### **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 field of computation of the electronic structure and electron-phonon interactions of a solid, confirmed by publications and talks at national and international scientific conferences,
- 4) has a fluent practical knowledge of the following calculation codes and methods: Quantum Espresso, Wien2k, SCTK, KKR-CPA, confirmed by publications, participation in schools or workshops regarding the given software, conference presentations, publication manuscripts in preparation,
- 5) can program in Python and visualize data in 3D,
- 6) has experience in teaching,
- 7) has substantive preparation and is ready to conduct classes in the form of computer laboratories in the field of calculating the electronic and phonon structure of a solid (classes conducted in Polish),
- 8) participates or participated in research projects financed through competitions by national or international grant agencies,
- 9) knows English at a level of at least B-2,
- 10) proven knowledge of the Polish language at the C1 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](mailto:sekretariat@fis.agh.edu.pl) till **22.11.2023**

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 Stanisław Staszic 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](http://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 .....

.....  
*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