

FORM FOR EMPLOYERS

INSTITUTION: AGH University of Krakow

DEPARTMENT: Insitute of Electronics

CITY: Krakow

POSITION: Assistant professor in a group of research staff

DISCIPLINE: Electronics, Physics, Materials Engineering

POSTED: 11.03.2024

EXPIRES: 15.04.2024

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

KEY WORDS: spintronics, quantum materials, spin-orbit coupling, spin Hall effect

DESCRIPTION (field, expectations, comments, requirements):

The aim of the IDUB D21 project will be to develop a new class of spintronic devices that can be used for hardware implementation of platforms dedicated to neuromorphic computing and their integration with dedicated systems. Work is planned on the integration of spintronic memristors (resistive memories) [Scientific Reports 12, 7178 (2022)] for applications in computation, further research on spintronic microwave nanoscillators [Scientific Reports 9, 19091 (2019)], and the fabrication of an oscillator matrix for synchronization and research on reservoirs computing using spin waves [Nature Communications 14, 3954 (2023)].

The candidate is expected to have knowledge of issues related to analog electronics, the basics of nanotechnology, and experience in working on neural networks. Experience in working in high-class cleanrooms or vacuum technologies is desirable. We expect full-time commitment to the project and passion for implementing an ambitious scientific project. Employment under the IDUB D21 project.

REQUIREMENTS:

- 1) doctoral degree in electronics, physics, materials engineering or related disciplines,
- 2) English at least B2 level,
- 3) scientific and organizational achievements,
- 4) active participation in conferences and symposia,
- 5) involvement in the implementation of the project at the full-time level,
- 6) passion for implementing an ambitious scientific project.

ADDITIONAL:

- knowledge of programming languages (C++, Python, LabVIEW),
- experience in instrumentation and electronic measurement setups,
- experience in vacuum deposition technologies (PLD, Sputtering),
- experience in working in cleanrooms.

DOCUMENTS REQUIRED:

- 1) Application, CV, personal questionnaire,
- 2) Copy of the doctoral diploma,
- 3) Documented scientific and research achievements in the form of 5 most important publications,
- 4) List of scientific achievements (list of publications: books, articles, papers published in conference proceedings, etc.) and organizational (list of performed functions in the past and currently, in the university or outside the university, etc.),
- 5) Opinion of the supervisor or opinion from a previous place of work,
- 6) Document confirming language knowledge at least B2 level.

DOCUMENTS MUST BE SUBMITTED:

Complete documentation must be sent to the following email address: skowron@agh.edu.pl

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

18-month contract starts on the 1st May 2024.

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 all information concerning the processing of your personal data on the website of the AGH University of Krakow after going to the "Personal data protection" tab (<https://www.agh.edu.pl/en/personal-data-protection>).

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.

.....
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.

.....
Date and signature