

## FORM FOR EMPLOYERS

INSTITUTION: AGH – University of Krakow

DEPARTMENT: Faculty of Mechanical Engineering and Robotics

CITY: Krakow, Poland

POSITION: Assistant Professor in a group of research staff (post-doc) (full-time-job)

DISCIPLINE: mechanical engineering

POSTED: January 3<sup>rd</sup>, 2025

EXPIRES: February 3<sup>rd</sup>, 2025

WEBSITE: - [www.agh.edu.pl/ochrona-danych-osobowych](http://www.agh.edu.pl/ochrona-danych-osobowych)

KEY WORDS: numerical modelling, finite element method, piezoelectric materials, structural dynamics

DESCRIPTION (field, expectations, comments, requirements):

the researcher will be involved in the development of capabilities of metamaterials and metagratings. In particular, his/her focus will be on designing and analyzing operational principles of wave-based devices and the related phenomena, and numerical and physical models' development and validation. Design and analysis methods will rely on partial waves approaches and multiple scattering techniques. Therefore, initial experience and knowledge of solution methods for multiple scattering systems will be acknowledged. The position offers a unique opportunity to take part in the complete design process of metamaterials – from theory, numerical analysis, manufacturing and validation by contact and noncontact (laser) methods. The selected candidate will be a member of the AGH team working in the DYNAMO project funded by the EU (see <https://dynamo-project.eu>).

QUALIFICATIONS and REQUIREMENTS:

- 1) PhD degree in mechanical engineering,
- 2) knowledge of the following topics: elasticity theory, transient dynamics (elastic waves), dissipation theory, structural optimization,
- 3) documented experience in building models and conducting numerical analyses,
- 4) English (fluent in speech and writing - at least B-2 level),
- 5) knowledge of the theory of the finite element method and computational packages using FEM, knowledge of the scientific computing environment (e.g. Matlab or similar),
- 6) 1-4 years of research experience,
- 7) list of scientific and organizational achievements and participation in conferences and symposia,
- 8) good communication skills,
- 9) enthusiasm for work (also in a team),
- 10) willingness to learn and improve qualifications.

The candidate must fulfil the following requirements defined in the Polish Law on Higher Education:

- possesses qualifications defined in the Law,
- has full legal capacity,
- has not been punished by final court judgement for intentional offence,
- enjoys full public rights.

## DOCUMENTS REQUIRED

Applications with cover letter, CV, questionnaire, certificate of English language (B-2 minimum), and the list of scientific and organizational achievements and participation in conferences and symposia, and participation in national and international projects.

## DOCUMENTS MUST BE SUBMITTED AT:

Please submit documents in electronic form – to Pawel Packo, DSc, PhD (pawel.packo@agh.edu.pl) by February 3<sup>rd</sup>, 2025, 23:59.

## **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 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.*

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 22<sup>1</sup> § 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