

FORM FOR EMPLOYERS

INSTITUTION : AGH University of Science and Technology

CITY: Krakow

POSITION: Associate professor

DISCIPLINE : biomedical engineering

POSTED

EXPIRES

WEBSITE <http://www.kmet.agh.edu.pl/katedra-metrologii/kontakt/>

KEY WORDS : *image guide procedures, minimal invasive therapies, hybrid imaging, biodesign, biomedical entrepreneurship, exploration and validation tools, purpose launchpad methodology, machine learning for diagnostic imaging and audio signal processing, exponential medicine*

DESCRIPTION (field, expectations, comments):

1. Possession at least a PhD degree in the discipline of biomedical engineering
Biomedical Engineering or a related discipline;
2. Documented, significant academic and practical accomplishments in:
 - Designing medical systems based on audio based tissue tool interactions and on evaluating audio recordings for minimal invasive procedures as well as for external handheld monitoring devices,
 - Hybrid imaging, biomedical entrepreneurship, exploration and validation tools,
 - Develop MEMS sensors for auscultation signal recording and the electronic components for low noise high amplification signal reception

- Develop biometrical feature extraction algorithms of audio profiles and implement relevant machine learning networks
 - Test and validate the concepts using imaging (mainly Ultrasound and MRI) and audio based sensor fusion evaluation
 - Interdisciplinary innovation management and biodesign / purpose launchpad based concept exploration, validation, and implementation
 - Prepare for a start-up venture,
3. Possession of at least a series of thematically related scientific publications in scientific journals or in peer-reviewed materials from international conferences or a scientific monograph or a chapter in a book, included in a scientific evaluation on the basis of separate regulations;
 4. Documented scientific activity conducted in cooperation with other universities or scientific institutions, in particular foreign ones;
 5. Documented, significant achievements as a result of international cooperation;
 6. Proven activity in scientific and research work (managing projects, grants or scientific and research teams, or their substantial implementation);
 7. Proven experience in leading international research teams;,,
 8. Identification and experience working in the international scientific community (e.g., committees/collegial bodies of international organizations, editorial boards of journals, etc.),
 9. Experience applying for national and EU research grants and established industrial network,
 10. Strong existing international collaborations and proven experience in identifying and subsequently securing technological novelty (patent applications) and creating start-ups.
 11. Proven English language skills.

Accomplishments upon which application for the above position is based must be those obtained after the award of the PhD.

A candidate may become a person who meets the following requirements set forth in the Higher Education Law:

- has the qualifications specified in the Act,
- Has full legal capacity,
- Has not been punished by a valid court sentence for an intentional crime,

- Has full public rights.

The application for the competition should include:

1. Application.
2. Curriculum Vitae.
3. Personal questionnaire.
4. A copy of the diploma with academic degrees
5. A list of accomplishments and skills and qualifications required in points 2-10 of the requirements. 2-10 of the requirements.
6. A document confirming knowledge of the English language.

AGH University of Science and Technology will be not the Candidate's primary place of work.