

FORM FOR EMPLOYERS

INSTITUTION: Technical University of Lodz, Faculty of Mechanical Engineering,
Department of Machines Dynamics

CITY: Lodz

POSITION: PhD researcher

DISCIPLINE: Mechanics

POSTED: 24th of August 2020

EXPIRES: 14th of September 2020

KEY WORDS: mechanics, tuned mass dampers, inerter, non-linear dynamics,

DESCRIPTION (field, expectations, comments):

Topics

Scholarship for PhD student working as a researcher in the project SONATA from National Centre of Science.

The person employed in this position will have the chance to continue his scientific career in a young team of researchers, which includes some of the world's best specialists in the field of nonlinear dynamics. It is a chance to work with the highest standards of scientific work and to establish cooperation with foreign scientific units from Italy, Germany, Great Britain and the USA.

In addition to working for the project, we offer the opportunity for personal development and conducting research on subjects not related to the project. We are open to new ideas and ideas, thanks to which our group is constantly developing and taking on new research and implementation challenges.

Description of project tasks

- Running numerical simulations of dynamical systems;
- Participation in development of new probabilistic methods for dynamical analysis;
- Creation and development of software for numerical simulations and data analysis (also “big data analysis”)
- Participation in writing scientific articles;
- Participation in international scientific conferences.

Requirements

- Education: MSc in mechanical engineering, physics, computer science, applied mathematics or related disciplines,
- At most 5 years from the completion of the MSc studies

- Possibility to start PhD studies at Lodz University of Technology,
- Languages: very good command of English.
- Motivation for scientific research
- Programming experience is welcomed, preferable in C++ or Python,

Procedures for the recruitment

The recruitment procedure has a two-stage formula and it will consist of the following stages:

1st Stage – an assessment of written applications. Applicants should submit:

- A motivating cover letter stating the current/future interests,
- Full CV – including scientific achievements, publications, awards, scholarships, courses, participation in research projects.
- Confirmation of MSc degree

2nd Stage – a qualifying interview with selected candidates

Terms and Conditions

- Scholarship: 4000PLN per month;
- Possibility to obtain other scholarships for the results of scientific work;
- Working place: Department of Machine Dynamics, Faculty of Mechanical Engineering, Lodz University of Technology;

Applications will be accepted until 30.09.2019 at the Secretariat of the Department of Dynamics at the Faculty of Mechanical Engineering Technical University of Lodz, address: Stefanowskiego 1/15, 90-924 Lodz, (A22 building, room 122) and the e-mail address: piotr.brzeski@p.lodz.pl