

Open Post-doc position in the project entitled:
**“Sample based approach for simultaneous estimation of different stability measures
for multistable dynamical systems”**
(UMO-2018/30/E/ST8/00364)

Deadline for submission of offers: 14th of September 2020;

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.

Requirements:

- PhD degree in a field related to the subject of the project;
- Knowledge of nonlinear dynamics, bifurcation theory and probabilistic methods;
- Programming skills, preferred languages: C ++, Python;
- Ability to write scientific articles confirmed by the co-authorship of at least 3 articles published in journals from the JCR list;
- Very good command of English in speaking and writing;
- Motivation to conduct scientific research, creativity;

Task description:

- Participation in the development of new probabilistic methods of analyzing system dynamics;
- Creating and developing software for numerical simulations and results analysis (the so-called "big data analysis");
- Writing scientific articles;
- Carrying out research works as part of the NCN project;
- Supervising the doctoral student's work in the field of conducting numerical simulations of dynamic systems;
- Participation in national / international scientific conferences.

Conditions of employment:

- Full-time employment based on an employment contract at the Lodz University of Technology;
- Salary in the amount of PLN 120,000 per year (including all employer costs);
- Place of project implementation: Department of Machine Dynamics, Faculty of Mechanical Engineering, Lodz University of Technology;
- Project manager: dr hab. inż. Piotr Brzeski;

Required documents:

1. Cover letter with contact details including motivation to join to the project with reference to the requirements.
2. Curriculum vitae including previous scientific achievements, publications in scientific journals, books, awards for scientific research, scholarships, awards and scientific

experience acquired outside the home scientific unit in the country or abroad, scientific workshops and trainings, participation in research projects.

3. A copy of the diploma or official document confirming obtaining PhD degree.

Form of submission of offers: by e-mail to piotr.brzeski@p.lodz.pl; attaching the required documents in PDF form.

Additional information is provided by dr hab. inż. Piotr Brzeski, e-mail: piotr.brzeski@p.lodz.pl

Please add the following clause to the application documents:

"I consent to the processing of my personal data by the Division of Dynamics, Faculty of Mechanical Engineering at the Lodz University of Technology with headquarters in Lodz, NIP: 727-002-18-95, ul. Stefanowskiego 1/15, 90-924 Łódź, in order to carry out this recruitment process. "

Information clause:

The administrator of your personal data is the Lodz University of Technology based in Lodz, NIP: 7270021895 ("College"). The University will process your data in order to carry out scientific and research activities, provide services and contact the University, under a contract (in connection with the performance of the contract or in order to take action at your request before the conclusion of the contract - Article 6 paragraph 1 letter b GDPR), the legitimate interest of the University (art.6 par.1 lit.f RODO) and legal provisions (art.6 par.1 lit.c RODO) - depending on the circumstances. You have the right to: request access to data, receive a copy thereof; rectification (correction); delete; processing restrictions; delivery; lodging a complaint to the supervisory authority; withdrawal of consent to processing at any time (withdrawal of consent does not affect the lawfulness of the processing that took place before its withdrawal) or objecting to data processing.