

**PhD Scholarship Offer within the NCN OPUS 16 scientific project
„DYNAMICS OF MICROPARTICLES IN FLUIDS”**

General information

Project leader: Professor Maria L. Ekiel-Jeżewska
Institution: Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland
Funding: 4500 PLN monthly NCN research scholarship
Duration: the post is open from now until June 2022

Scientific plan of the PhD

The goal is to analyze dynamics of microparticles settling under gravity in a viscous fluid or entrained by external flows. In particular, the influence of elasticity and charge will be studied numerically and theoretically.

Information about the project „Dynamics of microparticles in fluids” and the PhD

<https://www.ncn.gov.pl/sites/default/files/listy-rankingowe/2018-09-14/streszczenia/433227-en.pdf>
mekiel@ippt.pan.pl, <http://www.ippt.pan.pl/staff/mekiel>

During the project, it will be possible to participate in international scientific collaboration and attend scientific conferences and schools.

Requirements

- ⑩ Master of science degree and documented knowledge in science (physics, mechanics, mathematics)
- ⑩ Experience in microhydrodynamics
- ⑩ Advanced programming skills (Fortran/C, Matlab, Python)
- ⑩ Advanced training in mathematics
- ⑩ Motivation and skills to carry scientific work
- ⑩ Fluent English

Deadlines

Applications until 5.09.2021
Notification about the results of the recruitment process until 20.09.2021

Recruitment process

1) The scholarship is awarded according to the National Centre of Science Regulations on Awarding Scholarships in NCN-Funded Research Projects, as detailed in the Annex to resolution no 96/2016 of the Council of the NCN of 27th October 2016.

https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2016/uchwala96_2016-zal1.pdf

2) NCN research scholarships may be awarded to a person, who, at the time of beginning work on the tasks in the project, meets any of the following criteria:

- a) is an MA (or equivalent) student of a full- or part-time programme in a university established on the territory of the Republic of Poland;
- b) is a student of the fourth or successive year of a uniform master studies programme in universities established on the territory of the Republic of Poland;
- c) is a doctoral candidate, participant of a doctoral programme carried out by a legally authorised unit of a university, institute of the Polish Academy of Sciences, research institute or international research institute active on the territory of the Republic of Poland, established pursuant to separate regulations;
- d) is a participant of a doctoral seminar and is working on a dissertation.

There are currently two doctoral schools at IPPT PAN: Doctoral School IPPT PAN and Doctoral School TIB PAN.

The details about the recruitment procedures to both schools can be found at the IPPT PAN website,

<https://www.ippt.pan.pl/en/scientific-activities/phd-education/> and <http://tib.ippt.pan.pl/>

Required documents

- ⑩ Motivation letter (in English)
- ⑩ CV, including all scientific achievements, publication list, programming skills
- ⑩ A reference letter
- ⑩ MSc certificate and other documents required by the IPPT PAN Doctoral School
- ⑩ Signed statement: “I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended.”

Submission of the applications

by e-mail: mekiel@ippt.pan.pl, regular mail or in person to: Professor Maria L. Ekiel-Jeżewska, ul. Pawińskiego 5b, 02-106 Warszawa, to be received by 5.09.2021.