

Institute of Fundamental Technological Research  
Polish Academy of Sciences in Warsaw, Poland  
opens applications for  
**ASSISTANT PROFESSOR POSITION**  
in the Division of Complex Fluids

**Position:** Assistant Professor, full-time job, for 12 months with a possibility to extend for additional 24 months, depending on scientific results

**Deadline for applications:** September 15, 2020

**Key words:** soft matter, complex fluids, micro and nano particles in fluid flows, statistical physics of dispersions

**Objectives:**

- ⑩ To investigate theoretically and numerically basic features of the dynamics of micro and nano objects moving in a simple or complex viscous fluid
- ⑩ To determine the influence of elasticity on hydrodynamic interactions of deformable microfibers
- ⑩ To model theoretically hydrodynamic properties of biological systems of micro and nano particles
- ⑩ To study chaotic scattering and stable orbits of micro particle dynamics in water-based systems

**Requirements:**

- ⑩ PhD in science
- ⑩ experience in scientific research, documented by publications
- ⑩ programming skills (Fortran/C, Python, Matlab) and experience in numerical computations
- ⑩ proficiency in methods typical for theoretical physics
- ⑩ documented experience in hydrodynamics of many-particle systems
- ⑩ motivation, commitment, independent thinking and innovation in research
- ⑩ team work skills
- ⑩ fluency in English
- ⑩ fulfillment of the requirements adopted at the IPPT PAN when employed in scientific positions [https://www.ippt.pan.pl/attachments/rada-naukowa/2019-02-28suchwala\\_zatrudnianie\\_zasady.pdf](https://www.ippt.pan.pl/attachments/rada-naukowa/2019-02-28suchwala_zatrudnianie_zasady.pdf)

**Job benefits:**

- ⑩ research in a creative environment of the Division of Complex Fluids
- ⑩ modern subject
- ⑩ unique, precise numerical and theoretical methods
- ⑩ scientific collaboration with world-wide experts from leading laboratories in Poland and abroad
- ⑩ opportunity to compare theoretical and numerical results with experiments

**Required documents:**

- ⑩ formal application letter to the Director of the Institute
- ⑩ scientific CV with the publication list, citation number and H index, list of conference presentations, prizes and outstanding achievements
- ⑩ copy of PhD diploma
- ⑩ motivation letter with a proposed research plan

- ⑩ two recommendation letters
- ⑩ signed statement: "I agree to the processing of personal data contained in my job offer for the needs necessary to carry out the recruitment process conducted by IPPT PAN , with headquarters in Warsaw, ul. A. Pawińskiego 5B, according to art. 13 secs. 1 and 2 of Regulation (EU) 2016/679 of the Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and the free movement of such data and the repeal of Directive 95/46 / EC (RODO).

**Applications** should be sent till September 15 to HR Office [kadry@ippt.pan.pl](mailto:kadry@ippt.pan.pl), and to the Head of the Division of Complex Fluids, Professor Maria Ekiel-Jezewska, [mekiel@ippt.pan.pl](mailto:mekiel@ippt.pan.pl), who also provides additional information on request.