



Postdoctoral position in the project

Mathematical theory and numerical analysis for equations of viscous Newtonian compressible fluids

Appointment period: **12 months (with possible extension by 18 months)**

Appointment type: **Full-time employment contract**

Starting date: **July 1, 2022**

Salary: **CZK 45 000 per month**

Deadline for applications: **February 28, 2022**

The Institute of Mathematics of the Czech Academy of Sciences (IM CAS) is seeking a researcher for the project "Mathematical theory and numerical analysis for equations of viscous Newtonian compressible fluids" coordinated by professor Šárka Nečasová and funded by the Czech Science Foundation.

We invite applications from candidates who have completed their PhD degree in Mathematics within the last 5 years (or will have completed it before the time of hiring). Applicants should have a good background in the theory of partial differential equations and mathematical analysis of fluid mechanics. Knowledge of the modern theory of partial differential equations, strong and weak solutions, and Sobolev spaces is necessary. Some experience with modeling fluid-structure interaction is welcome.

We require verbal and written English communication skills and ability to work both independently and collaboratively. Publications, as well as other activities and professional achievements, will be judged by the stage of the applicant's career.

The successful applicant will be based at the Institute of Mathematics of the Czech Academy of Sciences, Prague, and perform mathematical research in the areas of the project. He/she is also expected to take part in activities of the Department of Evolution Differential Equations such as seminars and workshops organized by the group. No teaching is involved.

Questions and informal inquiries should be directed to Dr. Beata Kubiš, the Scientific Manager of the Institute, to her email address kubisb@math.cas.cz.

The following documents are required:

1. **CV**
2. **list of publications**
3. **motivation letter (may contain a short research statement)**
4. **two letters of reference**

Application for the position must be submitted **exclusively using the electronic submission system** at <https://application.math.cas.cz/Positions.html>

Equal opportunities are an integral part of the IM CAS personnel policy. The IM CAS fosters the compatibility of work and family and encourages applications from qualified female researchers. Disabled applicants will be given preference in case of equal qualifications.

Only complete applications (including the letters of reference) received before the deadline will be considered. Online interviews with shortlisted applicants will be scheduled for the week from March 7 to March 11, 2022. All applicants will be notified by March 28, 2022.

Tomáš Vejchodský, Director