

Research Scientist/Software Engineer and PhD Positions

The Skoltech Center for Materials Technologies (CMT) Moscow, Russia has an open full time Research Scientist/Software Engineer position in the research group of Professor Oleg V. Vasilyev, in the areas of

- **scientific computing,**
- **parallel adaptive numerical algorithms,**
- **software development.**

Research Scientist/Software Engineer

We are looking for a Research Scientist/Software Engineer with PhD or equivalent degree in Computer Science, Computational Mathematics, Applied Mathematics, or the related field with expertise in

software development and/or high-performance scientific computing and excellent analytical skills. The successful candidate will work with the team of research scientists and PhD students to develop a next-generation unified simulation platform with novel modeling paradigm that tightly integrates numerical solvers and physics-based modeling.

Candidates are expected to have a strong background in computer science and/or applied mathematics. Solid knowledge of modern C++ with object-oriented software design is also required. Proficiency working with modern CI-CD tools, good understanding of parallel algorithms and concurrent programming are essential. The balance of work between algorithm and software development will depend on the candidate's strengths and preferences. Good communication skills and English proficiency are highly desirable.

Selected applicants will receive a highly competitive compensation package (salary commensurate with experience, housing allowance in case relocation will be needed, medical insurance).

The application file should contain a CV, a list of publications and/or software development projects with detailed description of the candidate's contributions to the project, a research or software development statement, and names with contact information of minimum three references. The research/software development statement should be no more than two pages and should summarize the candidate's technical strengths, past research/software development accomplishments, research/software development interests, and long-term career objectives. The application should be emailed to Prof. Oleg V. Vasilyev (O.Vasilyev@skoltech.ru). The candidate's e-mail message should contain "research scientist/software engineer position" in the subject.

Ph.D. Student

Graduate students interested in pursuing Ph.D. studies in the above topics are advised to first contact Prof. Oleg V. Vasilyev (O.Vasilyev@skoltech.ru). The standard procedure is to apply via Skoltech Admissions for Doctoral Programs (<http://www.skoltech.ru/en/apply>).

Successful candidates are expected to have M.Sc. or equivalent degree in Computer Science, Applied Mathematics, Physics, Mechanical Engineering, Aeronautics, or the related field. Applicants should have a strong mathematical and/or programming background and a desire to use mathematical and computational tools in their research. A good knowledge of C++ is highly desirable.

<http://faculty.skoltech.ru/people/olegvasilyev>

