

Fraunhofer-Chalmers Centre for Industrial Mathematics (FCC) is the Swedish node of the largest applied research organization in Europe, Fraunhofer-Gesellschaft, and conducts research based on advanced mathematics and simulation to support efficient product realization and optimize production processes for companies in several branches. Our software is daily used at more than 100 leading companies across the world.

We have two open positions for talented

Computational Engineers / Project Leaders

About us

FCC's department for computational engineering is performing state-of-the-art applied research and development on numerical methods and algorithms for simulation of fluid dynamics, structural mechanics, electromagnetics, particle systems and multiphysics. Our aim is to contribute to a sustainable and innovative industry with novel research integrated in user-friendly software that offer unique possibilities for virtual product and process development. We are located in modern premises at the Chalmers Science Park, campus Johanneberg, Gothenburg, Sweden.

You will join an agile and fast-paced team with large experience in modeling, algorithmic design and numerical computations, who all are committed to solving challenging problems with big industrial and societal impact. Our customers and partners are globally leading companies in the manufacturing, pharmaceutical, wood and paper, infrastructure, mining and electronics industries, as well as research institutes in Sweden and EU.

Position 1: Surface treatment simulations

You will mainly work in industrial and public projects in our focus area surface treatment, where our aim is to supply industry with the most efficient tool to optimize quality, shorten lead time and significantly reduce the environmental impact. We offer an international environment where you will closely interact with our software developers, partners and customers, and take part in the planning of future releases. The work includes all steps in the computational engineering workflow CAD, meshing, scripting, run simulations, analyze and communicate results. Our multiphysics software platform IBOFlow® is equipped with a user-friendly GUI and a Python scripting interface. Python programming for automation of simulations and prototype development will also be part of your work. The position can be transferred into a project leader role for the right person.

Position 2: Particle simulations

You will mainly work in industrial and public projects related to particle simulations of granular and rock material with applications in infrastructure, mining, additive manufacturing, pharmaceutical industry and more. You will work in close collaboration with our software development team and help to build solutions for state-of-art particle simulations to aid industry in developing machinery and processes for increased efficiency and sustainability. The work includes all steps in the computational engineering workflow CAD, meshing, scripting, run simulations, analyze and communicate results. Our particle simulation software Demify® includes a fully-featured GUI platform and a Python interface. To build tailored customer prototypes in the Python environment. will also be an important part of your work. The position can be transferred into a project leader role for the right person.

Your profile

You have a Master of Science or PhD in computational engineering, applied mathematics, engineering physics, applied mechanics or other relevant area. You have a profound interest in modeling, simulation and sustainability, strong engineering skills and excellent communication skills in written and spoken English. You are an ambitious team player who are able to work independently and meet deadlines. Past experience of preprocessing tools such as ANSA, CAD software such as PTC Creo, commercial CFD, FEM and multiphysics software are meritorious.

Interested?

Welcome to submit your electronic application including cover letter, CV, course grades, and other relevant documents no later than **November 21** to: comp-recruit@fcc.chalmers.se

Note that evaluation of applications and interviews will take place continuously during the application period and you need to have a valid work permit for the European Union to apply. For questions about the position, please contact head of department Fredrik Edelvik, comp-recruit@fcc.chalmers.se, +46(0)730794220