

INNOVATION THROUGH SIMULATION

Math2Market GmbH is a leading company in the fields of digital material development and digital rock physics. Our versatile GeoDict® software offers simulation solutions for key industry segments worldwide. Our customers are research departments of renowned international corporations, leading research institutes, and worldwide-known universities.

As a dynamic and quickly growing owner-run company, we offer attractive career development opportunities in Kaiserslautern. We offer an inspiring, collaborative, and proactive working environment regarding tasks and responsibilities, depending on your experience and motivation. Work solving (scientific) challenges in a company setting, surrounded by outstanding colleagues, while shaping and helping grow the company.



We are looking for you:

Softwaredeveloper (m/f/d) PDE-Solver

The focus of the development team is

- Development of PDE solvers on 3D images.
- Visualization.
- GUI development and design.
- Import, processing & analysis of 3D images.
- Description & modeling of materials.
- Creation & processing of surface meshes.
- Automatic builds and tests.
- Interface development.

What we seek in our employees...

- are willing to continue learning and enjoy familiarizing themselves with new material.
- work independently, reliably, and with strong attention to detail.
- always keep goals and solutions in mind, without losing sight of the bigger picture.
- think for themselves and work well in a team.
- cooperative and service oriented.
- are enthusiastic and enjoy some traveling.
- possess intercultural competence.

Your profile

- Good knowledge in C++.
- Basic knowledge of parallel programming with threads (optionally with MPI).
- Preferably knowledge of data structures, like KD-Trees.
- Preferably mathematical knowledge of
 - Elliptic partial differential equations
 - Discretization of partial differential equations.
 - Stationary iterative methods: Jakobi, Gauss-Seidel, SOR.
 - Krylov subspace methods (BiCGStab, CG).
 - Newton methods, Jacobian matrices.
 - Convergence criteria of solution methods.
- Fun with programming.
- Development of complex software in a team.
- Working independently on one of the focal points in software development.
- A sound university-level education, e.g. as a physicist, mathematician, or software engineer.
- Confident knowledge of written and spoken English.

Are you interested and would like to know more?
Then, send your detailed application documents to:

Dr.-Ing. Christine König

✉ jobs@math2market.de

☎ +49 631 205 605 29 oder +49 172 634 194 9

We will contact you quickly!