# JOB PROFILE
# Numerical Modelling Engineer

**D I V E**
S O L U T I O N S

## OUR COMPANY

Our award-winning startup dive solutions provides web-based CAE solutions for engineering companies. Our in-house software utilizes novel particle-based technologies to simulate fluidic processes in complex mechanical systems. We accelerate development processes and decision making. Our dogma: We create beloved world-class software to help engineers design more sustainable products every day.

## OUR CULTURE

*We trust in creative people who love what they do. People who want to work on cutting edge technology that empowers engineers to make the world a better place. We believe in diversity, strong teams and healthy and friendly culture of trust, constructive feedback and empowerment. Work is not a job. Work is being passionate about something, meeting great people and building something you believe in.*

## YOUR MISSION

**Design physical models that are beyond state-of-the-art technologies
and shape the next big shot in industrial meshfree simulation.**

## YOUR TASKS

- You develop and implement numerical models for multiphase flows, thermodynamics and interface physics into our code base.
- You create algorithms and interfaces for coupling our SPH framework against other solvers and methods.
- You will be part of our decision-making team for defining the roadmap of our solver.

## YOUR PROFILE

- You enjoy shaping the foundation of our next big shot and have an eye for our customer's needs.
- You have a strong mathematical and physical understanding, especially in fluid mechanics.
- You have an understanding of numerical analysis and an interest in high performance computing.
- You know how to code modern C++ such as meta programming and OOD and you are familiar with software engineering principles and design patterns.
- You have experience with version control systems and build processes like git and cmake.
- You speak English fluently, both written and verbally.

## OUR OFFER

- Inspiring culture of creativity, failure and improvement, fast decision making, best-ideas-win philosophy.
- Personal and extensive onboarding, professional and personal development opportunities, team and network of internationally operating experts.
- Product demonstration meetups, company team-ups, joint voluntary service.
- Central workplace in Berlin, amazing IT equipment & tech talks to spread knowledge.

**You want to become part of our team? Start your application! Just send your curriculum vitae to:**
**talent@dive-solutions.de**