

A German SME offers software services in tool development as well as application optimization under software service agreements.

- **SCHEDA**
- **APPROFONDIMENTI**

Identificativo proposta: *TODE20200527001*

RICHIEDI MAGGIORI INFORMAZIONI

The German SME develops innovative software solutions for highly specialized industrial applications and optimizes complex code for the use on high-performance computing (HPC) infrastructures. The company offers its expertise and services in tool development along with application optimization. They are looking for software service agreements and are also willing to be a subcontractor for outsourced software development.

Based near Berlin, Germany, the SME develops innovative software solutions for highly specialized industrial applications and optimizes complex code for the use on high-performance computing infrastructures. The company was founded in 2017 based on a preceding university project, developing an innovative compiler technology for an automated acceleration of MATLAB or Python code. The company offers two main services: 1. Tool development: The company develops complex and highly specialized software solutions based on the individual requirements of the partner. Therefore, the company continually follows the latest technologies. Main fields of application are Algorithm Design, Data Preparation, Data Analysis, Data Visualization and Application Development, supporting almost all common languages. 2. Application optimization: An essential feature of efficient R&D is the high-performance computation of simulations and other applications on HPC hardware. The code optimizations required for this process needs detailed knowledge in multithreading, cache optimization and memory management. The company provides the know-how for these requirements. For the optimization process, the company first performs an initial translation from the input language to the target language. Afterwards, parallelization and other optimization methods are applied onto the code. The company is also willing to consult the client on which target architecture (Multicore CPU, Manycore GPU, Cluster Systems) the application should be optimized. A full overview of all capabilities and used technologies can be found on the company's website under "services".

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