

CAE Software Engineer- Automated Mesh Generation (m/f/x)

LOCATION
Hefei

COMPANY
ARRK Engineering Co. (Shanghai) Ltd.

TYPE OF CONTRACT
Full-time

START
27.10.2026

YOUR RESPONSIBILITIES

- Design and implement an end-to-end automated meshing pipeline, with STL surface representations of full car body geometries as the primary input.
- Repair and transform arbitrary-quality input surface meshes into clean, watertight, geometrically faithful surface representations: gap closure, self-intersection resolution, degenerate element removal, normal-orientation correction, and mesh simplification where needed — treating the repaired surface mesh as a deliverable in its own right
- Generate high-quality volumetric meshes in the domain enclosed between the validated vehicle body surface and a configurable surrounding box, covering the full range of process domain geometries we encounter

YOUR PROFILE

- MSc or PhD in computer science (computer graphics, computational geometry) or software engineering, mechanical engineering, applied mathematics
- Applied computational geometry background: **familiarity with CGAL**
- Experience in processing surface mesh representations
- Strong programming skills in C++; additional Python experience is an advantage •Good written and spoken English

YOUR BENEFITS

- Exciting projects
- Flexible working hours
- ARRK Engineering Academy
- Attractive salary
- Sports and wellness offers

APPLY NOW

ARRK Engineering is part of the international ARRK Group and specialized in all services relating to product



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development. Within the ARRK Group we implement product development from virtual engineering to prototypes and low volume production.