Geometry/Meshing Software Developer (24GMSD)

Are you a talented Engineering software developer? Are you willing to work at the very heart of a company developing engineering tools including for meshing and geometry manipulation, as we continue to identify and exploit emerging commercial opportunities for our BOXER Software System and BOXERgeom our Digital voxel-based geometry kernel?

We are looking for someone with good understanding of Geometry or Meshing concepts. A person with proven software development experience and working knowledge in one or more of the below topics would be ideal.
- Generative design, Topology Optimization
- Voxelized Digital Geometry
- Level-Set Methods
- Mesh Adaptation/Refinement/Smoothing
- 3D Graphics and High-end Gaming
- Geometry tessellation and 3D Printing

We welcome expertise in various programming languages including C, C++, C# and Python.

Job Responsibilities

- As a Software Developer, you will help the team in accelerating BOXER product development
- You will be required to carry out various development tasks ranging from new development, customer-led improvements, and bug fixes
- You will be required to work across the domains of meshing, geometry modelling, computational geometry as per the company strategic roadmap

Minimum Education /Experience:

Compulsory
- Bachelor's degree or higher in engineering, computer science, mathematics, or related field
- Professional experience in software development - we are looking for someone with at least 3 years of working in this field but would welcome applicants with significantly more experience
- Primarily, Linux development but familiarity with Windows

Desirable Qualifications / Skills
- Experience in developing large scale graphics/GUI applications
- Knowledge of Parallel Programming using MPI or OpenMP
- Familiar with Testing methods and systems
- Good communication and documentation skills

Personal Qualities/Skills
- Team work and collaboration, but also ability and aptitude for independent working
- Problem solving and attention to detail
- Adaptable and able to use initiative

Cambridge Flow Solutions Ltd. Suite 1, 200 Cambridge Science Park, Milton Road, Cambridge, CB4 0GZ, UK +44 (0)1223 628770 www.cambridgeflowsolutions.com
Registered Office: c/o Botanic House 100 Hills Road Cambridge CB2 1PH UK   VAT Registration: 750 8517 26 Company Number: 3720254
Chairman: WN Dawes Directors: WN Dawes ME Hickling Y Sakamoto

About Cambridge Flow Solutions (CFS):

We at CFS are committed to building engineering software tools and products that are effective, easy to adopt and make a significant impact on industry. Our products like BOXERmesh, BOXERgeom & BOXERsolve have an international reputation for scalability, robustness, configurability, and modular design. Over the last decade, CFS has built a strong relationship with its customers. We offer solutions across a range of industries based on our core research vehicles:

- **BOXERmesh, a robust scalable fully parallel mesh generator**
- **BOXERgeom, a voxel-based Digital Geometry™ modelling kernel which supports MRO, AI/ML**
- **BOXERsolve, a highly customisable ale RANS/LES/thermal solver**

What do we offer:

- Competitive pay depending on experience
- Opportunity to work in a specialist but significant domain – our zero carbon future will be designed and delivered using simulation
- Professional work environment
- Work with a dynamic and inclusive team

Job Location: Office based, Cambridge, UK
Job Type: Permanent

With offices on the world-renowned Cambridge Science Park, UK we are continually looking for exceptional talent, particularly in the areas of Computing, CFD/CAE applications engineering, consulting, sales and support. We offer stimulating work in a young and dynamic company with exciting prospects. For the right person, development into leadership roles is encouraged.

Salary: CFS offers a competitive salary

Please email with a stated salary expectation and the job reference, GMSD when applying. Only applications with this salary information will be considered. Please forward all applications (enclosing a CV and cover letter) to careers@cambridgeflowsolutions.com

Closing date: We review applications on a rolling-basis

There will be a two stage interview process with an initial telephone interview and then successful candidates will be asked to attend an interview online or in person.

Cambridge Flow Solutions is an equal opportunities employer and we welcome applications from all suitably qualified persons.

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