Job Offer for a

Combustion Modelling Engineer

Reference: Job number DEV 19-01
Number of positions: 1

NUMECA International (numeca.com) is a worldwide operating CFD company, which develops engineering flow simulation software widely used by engineers and designers for a large variety of fluid engineering applications in aerospace, energy, automotive and marine sectors. NUMECA is rapidly expanding and is continuously looking for talented coworkers. The company has its headquarters in Brussels (Belgium), subsidiaries in San Francisco (USA), Mons and Leuven (Belgium), Tokyo (Japan), Bangalore (India), Beijing (China) and Hong-Kong and is active worldwide through its network of agents and partners in Asia, Europe, and America. The company employs over 100 persons in Belgium and around 130 persons in total worldwide.
**What is the opportunity?**

To further sustain and accelerate its growth, NUMECA is looking for a CFD Engineer with experience in combustion modelling to join its staff in Brussels.

**What will you do?**

You will be part of the Combustion Modelling Team and participate in the development of NUMECA’s advanced CFD solvers devoted to multiphysics-multipurpose applications, in particular to reactive flow modeling.

In tight collaboration with other CFD developers, your main responsibilities will include:

- Development of innovative physical models and computational methods for multiphysics, combustion and reactive flow applications
- Participate in R&D projects
- Support teams in application of new functionalities.

**Who are we looking for?**

**Required skills:**

- A Master degree in Science/Engineering or equivalent is a prerequisite
- A PhD or +3 years of experience in CFD code development would be preferable.
- Applicants should have a strong background in fluid mechanics, CFD software development and multi-physics modelling with a specific expertise in **combustion modeling**
- Hands-on experience in CFD code development
- Strong background in fluid mechanics, thermodynamics, and numerical methods
- Good experience in engineering programming language (C, C++, and/or FORTRAN).
- Experience with Large-Eddy-Simulation would be a plus
- Fluency in English

Applicants should be highly motivated, dynamic, have good analytical and communication skills, be a team player while taking ownership of the tasks assigned and be able to meet the highest quality standards in software development. Proven skills in engineering problem solving and written/oral communication are essential.

**What do we offer?**

We offer to work in a stimulating, young and multicultural environment, and to be part of a dynamic and growing company. We propose competitive package (including profit sharing) and excellent job growth opportunities and mobility within NUMECA Group. Excellent candidates will be given the opportunity to embark on an industrial PhD program, if interested.

**How to apply?**

Please send motivation letter and resume plus relevant technical papers, reports, references, etc. to: Dr. Jan E. Anker, Head of the Combustion Modelling team, NUMECA International at [jobs@numeca.be](mailto:jobs@numeca.be).  
**Indicate clearly the reference job number: DEV 19-01**