



The Combustion Institute

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Combustion Application Engineer

NUMECA, a worldwide operating CFD software company (<http://www.numeca.com>), develops engineering flow simulation software widely used by engineers and designers in a large range of fluid engineering applications, from Aerospace, Power Generation, Energy to Race Cars and Ships. NUMECA is rapidly expanding and is continuously looking for young and senior 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 90 persons in Belgium and around 120 worldwide.

What's the opportunity?

To further sustain and accelerate its growth, NUMECA is looking for a [Combustion Application Engineer](#), to join the NUMECA International team based in Brussels. Within this role you would find yourself in the core business of NUMECA and be a member of a team promoting, supporting and improving NUMECA innovative software solutions for the Aero, Auto and Multiphysics industries.

What will you do?

Working as part of the Aero, Auto & Multiphysics team, you will carry out numerical simulations, involving grid generation, flow computations, post-processing as well as design and optimization activities with the objectives to:

- Carry out highly technical projects to demonstrate the capabilities of our software
- Test and validate the new features and models in our future releases
- Support NUMECA worldwide offices network and customers in their daily use of NUMECA solutions
- Perform pre-sales presentations and demonstrations suited to the prospects requirement
- Conduct training classes involving participants of varying skill levels.

Essential Requirements

- A master degree in Fluid Mechanics is a prerequisite with master thesis or similar internship in
- CFD.
- Theoretical and practical experience of Combustion (modeling or experimental experience)
- Prior experience with an industrial CFD package in an industrial setting or research laboratory is a strong asset.
- Python scripting skills is welcome
- Detailed understanding of the numerical methods for Computational Fluid Dynamics (CFD)

- English proficiency

Applicants should be highly motivated and dynamic, have good analytical and communication skills, and be a team player with sound interpersonal skills. Proven abilities in engineering problem solving and written/oral communication are essential.

What's great about joining this team?

You will be joining a dynamic team of about 5 engineers with 3 areas of expertise : external aerodynamics, thermal management and combustion modeling. You will be able to work on a wide range of applications from the energy and aerospace sectors. This includes among other applications: Combustion chamber simulation for aero engines, industrial furnaces and chemical process customers. Thermal simulation of full car models. The position is likely to involve some travels within Europe and the opportunity to have a direct contact with the user community. You will have the opportunity to learn and develop solutions and methodologies using the latest innovations in collaboration with our expert developers.

How to Apply

Please send motivation letter and resume plus relevant technical papers, reports, references, etc. to: Jonathan Brunel, Head of the Aero, Auto & Multiphysics Products & Applications Group, at jobs@numeca.be .

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