

Are you auto-motivated? Welcome!



With sales of approximately €20 billion in 2009 Continental is among the leading automotive suppliers worldwide. As a supplier of brake systems, systems and components for powertrains and chassis, instrumentation, infotainment solutions, vehicle electronics, tires and technical elastomers, Continental contributes enhanced driving safety and global climate protection. Continental is also a competent partner in networked automobile communication. Continental currently employs approximately 134,500 in 46 countries.

Postdoctoral Position (2 years contract)

Project: Computational Fluid Dynamic of atomization process with interface capture, using OpenFOAM

Location: Rouen (France)

Start Date: flexible, not later than 1st October 2010

Job description:

Our partner, CORIA Lab (CNRS) is one of the worldwide leader of these CFD techniques and atomization modeling. The PostDoc is dedicated to the interface capture in CFD for atomization process. Two codes are used: OpenFOAM, a semi-industrial, unstructured code, open-source; and the internal academic code, structured, with automatic mesh refinement, named Archer developed by our CORIA Team of prof. A. Berlemont. The atomization case will be the Gasoline engines high pressure direct injection. Proper Orthogonal Decomposition for inlet boundary conditions and post-treatment have been developed in Continental team and will be used as well as turbulent flow and atomization analysis methods.

The PostDoc is a part of a collaborative project "MAGIE" with 10 European partners, coordinated by the industrial Continental automotive. Publications will be encouraged.

Job requirements:

- PhD doctor (m/f) in Computational Fluid Dynamic
- The candidate (m/f) has experience in OpenFOAM or Interface tracking
- Doctorate in CFD, ideally on interface simulation, or on OpenFOAM, or in atomization
- Easiness in programming, posttreatment, numerics needed
- English needed
- French appreciated (but can be learned during the PhD)

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