

# 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.

## PhD Position

**Project: Computational Fluid Dynamic: Large Eddy Simulation of Cavitating Flow with OpenFOAM**

**Location: Toulouse (France)**

**Start Date: flexible, not later than 1<sup>st</sup> October 2010**

### Job description:

Continental Automotive Advanced Development, Spray & Simulation team has the responsibility of advanced nozzle internal geometry design, and spray targeting - mixture formation in discussion with a dozen of automotive manufacturer, as well as the innovation & R&D proposals.

The subject of the PhD Position is Large Eddy Simulation of Cavitating flow. The solver used will be the open-source software OpenFOAM which exhibit features between academic and commercial solutions. The thesis will be focused on the development of the spatiotemporal coherent structures and subgrid turbulence developing in link with the nozzle geometry. Such structures are sometimes highly coupled to the unsteady cavitation process.

The PhD (m/f) will participate as well to practical projects with CFD of the leading automotive companies engine cases. Publications in congresses and journal will be encouraged. International teamwork and collaboration with academic laboratories will take place.

### Job requirements:

- The candidate (m/f) has university and training experience in Computational Fluid Dynamic
- Motivation for fluid mechanic, piston engine and a previous experience in CFD requested
- English needed
- French or German appreciated (can be learned during PhD)

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Your contact partner: Continental AG, Mrs. Milada Hanzakova, Employer Branding & Recruiting