

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: Simulation of Mixture Formation and Combustion in Piston Engines

Location: Germany

Start Date: flexible, not later than 1st 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 PhD (m/f) will improve the kinetic scheme coupled to our evaporating spray, fluid dynamic simulations. The objective is to better understand the pollutant emissions and the autoignition process. In Diesel engine, high EGR rate engines have a large dilutant percentage which influences the chemistry process. In Gasoline, two subjects are of first importance: to avoid spurious autoignition for high BMEP engines; to capture the carbon particles number emissions for Euro6 levels. The level of modeling will be the minimum complex as possible to capture the physical features. It will be tested in high accuracy commercial software.

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