

# 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: Multiphase Fluid Laser Doppler Measurements**

**Location: Germany**

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

### Job description:

The PhD position is proposed in the framework of an international research consortium leaded by the industrial Continental Automotive. The research is focused on the development of advanced experimental techniques for the new generation of direct injection of gasoline engines for low fuel consumption and pollutant emissions.

The position is focused on PPDA-LDA techniques. For such techniques, the presence of a dense liquid flow, or the presence of vapor is problematic. The PhD (m/f) will establish a coherent methodology for such presence of high liquid density and vapor. He/She will apply the PPDA-LDA and some direct visualization to innovative new injector nozzles and parameter variation to participate to the common effort of LowCO<sub>2</sub> engines.

Our partner, the University of Loughborough, is worldwide leader in measurement of Laser Doppler Anemometry for droplet size and velocity.

### Job requirements:

- The candidate (m/f) has university and training experience in micromechanical designing / building
- First class international publications will be encouraged
- English requested
- German and/or French appreciated
- The candidate (m/f) has to exhibit a university level
- Strong motivation for experimental approach and if possible a similar experience (diploma thesis for instance)

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