



R&D POSITION IN MOTORBIKE SAFETY

Development of a controller for PTWs

MYMOSA (MotorcYcle and MOrtocyclist SAfety) is a Research Training Network composed of a well balanced group of 5 universities, 3 research centres and 6 companies which are active in modelling, simulation, experimenting and producing equipment and devices for the safety of motorbikes, mopeds and their riders. Its main objectives are:

- to improve Powered Two Wheelers and riders' safety leading to a significant reduction of injuries and fatalities of motorcyclists;
- to educate **10** Young Researchers in the partially unexplored field of Powered Two Wheelers' and riders' safety;
- to facilitate the development of Research & Development abilities and the formation of a European network of personal relationships in an early stage of the careers of the researchers.

The Department of Mechanics and Industrial Technologies of the University of Firenze (Florence, Italy) is looking for one Early Stage Researcher (ESR) to work, for 28 months, on the development of a controller for Powered Two-Wheeler (PTW) models, which replicates the actions of a rider while driving a PTW. The work will be closely integrated with other two ESRs of the project. The main goal of the overall activity is the creation of a simulation environment to investigate pre-crash and crash scenarios in order to develop safety devices (passive and integrated).

The research is highly multidisciplinary. The candidate should have an Engineering or Physics or Mathematics degree and an adequate mathematical and computational background. Knowledge on control theory and multibody simulation codes as well as a specific experience in the field of motorcycle/motorcyclist simulation could be an asset, but they are not required. Furthermore candidates must also be proficient in spoken and written English.

Candidates who have the proper qualifications may get the opportunity to perform this work as part of a PhD study.

All members of the network are equal opportunity employers; both female and male candidates are invited to apply. **The deadline for submitting an application is 11.05.2008.**

The expected salary will be defined according to the provisions stated by the EC for the Marie Curie RTN (<http://cordis.europa.eu/mariecurie-actions/>).

The expected starting date will be June 2008.

To apply, please send a detailed CV together with a letter of motivation and the names of two referees to Prof. Marco Pierini,

University of Firenze ,
Department of Mechanics and Industrial Technologies,
Via di Santa Marta, 3,
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or send an e-mail to marco.pierini@unifi.it, tel: +39 055 4796 477/487