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The step beyond

PhD-Position on Safety-Critical High-Performance Processing (m/f)

Reference Code 10083923 SS EN EXT 2

- Site:	EADS Innovation Works Munich
- Target Group:	Student
- Work Contract Type / Working Time:	PHD, Research contract / Full time
- Start Date / Duration:	01.05.2010 / 3 years
- Work Experience:	Entry level (less than 2 years of experience)
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- Functional Area:	Research & Development
- Education:	Degree 5 Years & more / Engineering / Avionics Degree 5 Years & more / Engineering / Real-time Software



EADS is a global leader in aerospace, defence and related services. In 2008, EADS generated revenues of EUR 43,3 billion and employed a workforce of about 118,000.

Description of the job

For Innovation Works in Munich within the department CTO IW SI - Sensors, Electronics & Syst. Integration we are looking for a PhD on Safety-Critical High-Performance Processing (m/f).

Tasks

Your responsibilities will include:

- Development of approaches to use multi-core and system-on-chip approaches in aerospace and space environments
 - o Development of process and process use aspects
 - o Approaches will be based on a combination of experimental, theoretical, and simulation.
- Perform independent research in computing at PhD level
- Work and collaborate with international partners in joint research projects
- Representation of project work and management

Skills

We are looking for candidates with the following skills:

- Excellent knowledge in embedded high-performance processing (multi-core computing)
 - o Time- and space partitioning, virtualization, hypervisor concepts, etc.
 - o Parallel system design aspects
 - o System-on-chip aspects of computing
- Excellent knowledge in embedded operating systems (like Linux)
- Interest in dependable systems
 - o Interest in embedded and safety-critical system design issues
 - o knowledge in safety-related standards like ARP 4754, ARP 4761, DO-297, DO-178b/c, DO-254, IEC61508, ARINC-653, ISO26262, etc. advantageous
- Good programming skills (high-level languages like C)
- Self-initiative, willingness to learn, high degree of independent research and development
- Ability to work as part of a team
- Good communication skills
- English: Advanced
- German: Good

Contact

Please apply online via the EADS eRecruitment tool ([www.eads.com/ Job Navigator](http://www.eads.com/JobNavigator)) and attach your application.