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PhD - Optomechanical Technologies

Organization: Robert Bosch GmbH | Nation: Germany | Location: Renningen | Functional Area: Research & Development | Level: Ph.D. | Date: 08.03.2017 | Reference no.: DE00516606

Do you want beneficial technologies being shaped by your ideas? Whether in the areas of mobility solutions, consumer goods, industrial technology or energy and building technology – with us, you will have the chance to improve quality of life all across the globe. Welcome to Bosch.

The Corporate Sector Research and Advance Engineering is in charge of designing, testing and exploring systems, components and technologies. Our innovations consistently aim to achieve an improvement in the quality of life. Renningen, near Stuttgart, is the new hub of the Bosch Group's global research and advance engineering activities. Here around 1,600 employees from the center for research and advance engineering will develop new materials, methods, and technologies, along with new systems, components, and production processes.

Your contribution to something big

The PhD project is part of the Marie Curie European Training Network "Optomechanical Technologies". You can find details here: <http://www.omt-etn.net/>. The program has additional requirements:

- ▶ Candidates must have less than four years of experience in a fulltime research position after having graduated and must not have obtained a PhD yet
- ▶ Additionally, the mobility rule applies: Candidates must not have lived and/or carried out their main activity (studies, work, etc.) in Germany for more than 12 months in the past three years at the time of recruitment
- ▶ The Marie Curie program offers additional mobility and family allowance

Your task is

- ▶ Concept development for advanced micro-optical beam deflection devices
- ▶ Design and simulation of functional components in different physical domains
- ▶ Modelling of the system performance
- ▶ Fabrication and test of prototype devices
- ▶ Close collaboration in a team of experts on simulation and fabrication technology and developers in the research departments and our business units
- ▶ Enrolment in the doctoral program at the University of Konstanz

What distinguishes you

- ▶ Master in electrical engineering, physics, microsystems-engineering or comparable with excellent grades
- ▶ Experience in micro fabrication technologies and in the modelling of nano- and micromechanical devices
- ▶ Knowledge in optics and photonics
- ▶ High level of enthusiasm, creativity, independent work/task-management and team spirit
- ▶ English and German skills

Duration: 3 years

The final Phd topic is subject to your university.

Make it happen.

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