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Thesis Simulations of permanent magnetic phases

Organization: Robert Bosch GmbH | Nation: Germany | Location: Renningen | Functional Area: Research & Development | Level: Thesis (Diplom/Bachelor/Master) | Date: 02.02.2017 | Reference no.: DE00507489

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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

You are going to work in a motivated team of scientists and engineers with close contact to worldwide leading universities and research institutes. Subject of your work is the ab-initio simulation of permanent magnets to identify new compositions for future industrial applications. You will do this by:

- ▶ Calculating the magnetic properties of new crystal structures with density functional theory (DFT)
- ▶ Transfer your results to scientists in the laboratory

What distinguishes you

- ▶ You are studying physics, chemistry, materials science, or a similar field with above average success
- ▶ You have experience with the quantum mechanics
- ▶ You are familiar with python or similar programming languages
- ▶ You have a keen interest in solid state physics
- ▶ You show initiative and have a systematic way of working
- ▶ You have the ability to work independently as well as within a team

Requirement for this thesis being enrolled in university. Please attach your examination regulations and when indicated work permit and legal alien resident.

Start: according to prior agreement
Length of this thesis: 6 months

For more information please contact Mr. Ziebarth.
Tel.: +49(0)711/811-6239

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