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Research Scientist Mathematical Optimization

Organization: Robert Bosch GmbH | Nation: Germany | Location: Renningen | Functional Area: Research & Development |
Level: Professional | Date: 26.10.2017 | Reference no.: DE00577599

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

- ▶ Analysis of mathematical optimization problems that are fundamental to machine learning in Bosch products and services
- ▶ Engineering of algorithms for solving these problems exactly or approximately
- ▶ Theoretical analysis of these algorithms
- ▶ Implementation of prototypes of these algorithms (in collaboration with our research engineers)
- ▶ Empirical analysis of these implementations (in collaboration with our research engineers)
- ▶ Authoring of research articles for leading conferences and journals
- ▶ Collaboration with academia (MPI for Intelligent Systems, University of Tübingen and beyond)
- ▶ Blue skies, curiosity-driven research

What distinguishes you

- ▶ Doctoral degree in Mathematics (or a related discipline if a comprehensive education in mathematics can be proven)
- ▶ Expertise and publication record in a field of mathematical optimization (preferably mixed-integer non-linear programming or non-convex, non-smooth optimization)
- ▶ Solid programming skills, preferably in C++
- ▶ Motivation and ability to define an individual research roadmap
- ▶ Scientific writing skills in English for authoring research articles without supervision

Do you want to work part-time? We offer individual working time models.

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Contact HR Department: Michael Streitmayer, Tel.: +49(711)811-33306

Contact Business Department: Björn Andres, Tel.: +49(711)811-0

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