PhD in Robotics (m/f)

"Machine learning in industrial robotics"

INVITE GmbH develops and demonstrates innovative production concepts for the chemical and pharmaceutical industry. As a joint venture between Bayer AG, the TU Dortmund University and the Heinrich Heine University Düsseldorf, INVITE sees itself as an open research and development platform. Robotics is one of our strongest growing areas for the last three years.

The stakeholders of INVITE are Bayer AG, Technical University of Dortmund and Heinrich-Heine-University of Düsseldorf. Company headquarter is at the Chempark in Leverkusen, Germany.

During your PhD-thesis you will investigate opportunities of machine learning in industrial robotics control. The focused industrial applications origin from different highly relevant demands in the life-science-industry like the one shown at https://grants4tech.bayer.com/robotic-competition/. The work will be supervised by our shareholder Technical University of Dortmund, Robotics Research Institute and Dept. Computer Science VIII.

YOUR TASKS AND RESPONSIBILITIES

- Develop and execute concepts to utilize machine-learning in the control of robots in industrial applications.
- Evaluate the opportunity offered by machine learning.
- Coordinate and integrate interns to support and complement the development and testing.

WHO YOU ARE

- University degree (Master/Diploma) in mechanical engineering, computer science or similar.
- Profound experience in robotics (e.g. project or industry experience).
- Profound experience in machine learning (e.g. part of university studies).
- Take responsibility and cooperate with lab engineers/technicians
- Strong social skills for interaction within the team as well as with customers and partners
- Strategic thinker with innovative flair for original thinking in new fields without established routines and processes
- Fluent English language skills, both written and spoken. German language skills are beneficial.

YOUR APPLICATION

We offer a competitive salary and benefits package and support both individual and professional development. If you see these varied and responsible tasks as a personal challenge, please apply electronically with your complete application documents (cover letter, CV, certificates) to Mr. Coulon at application@invite-research.com

INVITE is committed to the principle of treating all applicants fairly and avoiding discrimination based in particular on race or ethnic origin, colour, nationality, religion, belief, gender, age, disability, appearance or sexual identity.