



Internship / Bachelor / Master Thesis (m/f) Industrial Data Analytics

Looking for a taste of working life in an international, future-focused corporate group? Then complete an internship with us, or come to us to write your thesis. Both options are open for 3-6 months, depending on your course of study and subject to approval. ABB will provide you with wide-ranging, professional and expert support to help you complete your thesis. Expand your network now, and learn about our company as you undertake a practically focused thesis or internship.

Location:	Ladenburg, Baden-Wurttemberg, Germany
Job Function:	Research and Development
Employment Contract Type:	Diploma work
Division/Function:	Country Staff Research & Development
Business unit:	NA
Publication ID:	DE59659483_E1

Tasks

Students at ABB are high potential students and developers who strive to create and implement new solutions for industry.

- As part of the operations management group at ABB Corporate Research Center Germany you will investigate new approaches to analyze industrial data available in ABB's distributed control system platforms.
- During the internship/thesis you will develop and test various robust and easy to use data and signal processing algorithms.
- Therefore, you will learn about methods from different areas of Engineering, Computer Science and Mathematics like advanced data mining, statistical analysis, fault detection and isolation, digital filter, state-space estimator, predictor to name only a few.
- Here you should develop a toolbox which can be integrated into our application environment.

We expect that you show readiness to tackle difficult problems, above-average motivation to implement existing

approaches and test and develop new scenarios and pro-activeness to come up with new ideas on how to overcome possible challenges.

Requirements

- You are studying Electrical/Mechanical/Control, Process Engineering, Computer Science, Mathematics or related.
- You are in the final phase of your Bachelor/Master education and interested in data analytics for industrial processes.
- You have knowledge in at least one of statistical methods, signal processing or data mining.
- Knowledge of Matlab or similar tools for data analysis is mandatory.
- Experience in software development, algorithms, data structures, (in memory) data storage and object oriented programming languages (e.g. C#, Java) is of advantage.
- Basic knowledge in distributed control system and Human-Machine-Interfaces is of advantage but not mandatory.
- You can communicate fluently in English or German in

verbal and written form.

Additional Information

Internships:

We believe in fairness, so interns (m/f) who join us will benefit from our expertise as they expand their own knowledge. We give you the scope to try things out for yourself and obtain practical experience. Your time is valuable, so you will receive appropriate remuneration for the duration of the internship.

Please note that internships are generally limited to six months, while voluntary internships during a bachelor course are for a maximum of three months.

Please state whether you are applying for a voluntary internship or undertaking a mandatory internship, and be sure to enclose your certificate of enrolment. In the case of mandatory internships, please include the corresponding extract from your university's internship guidelines.

Thesis:

With the approval of your university, you can complete your bachelor or master's degree by spending three or six months with us as you work on a practically focused thesis. You define the subject matter with us, with the support of the right contacts in various departments.

Interested? Then we look forward to receiving your informative application (cover letter, CV, certificate of enrolment, current transcript of grades and other supporting documents) through our online careers tool.

ABB AG

Recruiting Center

Sabine Schedler

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 135,000 people.

Strong position in research & development are a prerequisite for ABB's business success. Essential contributions grow out of the collaboration of ABB's research and operational organization. Our Corporate Research Center close to Heidelberg in Germany is one of seven ABB Corporate Research Centers worldwide.

Our ambition.
Your legacy.

Power and productivity
for a better world™ 