

Internship Opportunities
with the IoT-Factory
at Hochschule Bielefeld – University of Applied Sciences and Arts (HSBI),
Germany

Open to:	Advanced Bachelors students or Master's level students from the University of Alberta, MacEwan University, NAIT or Concordia University of Edmonton studying Electronics, Engineering, Logistics, Applied Data Science
Application closing date:	30 November 2025
Duration:	internships start between May 15 and July 15, 2026 for a duration of three months (minimum stay ten weeks, maximum stay 90 days)
Campus location:	Gütersloh

For further information, please refer to the internship advertisement on the next page.

To submit the application, please contact the International Office of your institution first. Please note that this internship is offered as part of the [RISE programme](#). Applications must be submitted via the RISE application portal and not directly to HSBI.

RISE application portal:

<https://www.daad.de/rise/en/rise-germany/find-an-internship/application-portal/>

For more information, please visit:

HSBI: <https://www.hsbi.de/en>

International Office: <https://www.hsbi.de/en/international-office>

Alberta OWL Cooperation: <https://www.campus-owl.org/alberta.owl/>

Unlocking Innovation: Explore internship opportunities in our IoT-Factory!



Through a variety of part-time degree programs and practice-integrated degree programs, the Gütersloh campus of HSBI lays a strong emphasis on applied research and education. The Center for Applied Data Science (CfADS) at HSBI in Gütersloh is a research, competence, and service center with a primary focus on data collecting, processing, and analysis. Its objective is to assist organizations and corporations in their transition to digitization and in streamlining their operational procedures.

CfADS operates a powerful Data Analytics Cluster (DA-Cluster) for high-performance analysis of heterogeneous data, which is used in a number of research projects. In addition, an IoT-driven production facility is maintained to ensure application-oriented, independent, and cost-free research. It also acts as a testing ground and as a source of heterogeneous data for research projects related to the DA-Cluster. Currently, this infrastructure is being expanded to include a human-centric assisted assembly Stations.

While the IoT Factory is fully operational, it continues to evolve through ongoing enhancements that increase its research and educational value. The offered internship provides the opportunity to actively contribute to this development through hands-on software and system engineering tasks. Depending on individual skills and interests, the intern may work on:

- extending and improving our in-house production control software OptiFlow (Python, Django)
- building and automating a 3D printing station including filament recycling
- Enable live tracking of products and AGV's within the factory using our installed indoor GPS system for position and process monitoring

The ideal candidate is proficient in Python and comfortable working with existing codebases, including debugging, extending, and integrating new functionalities. A strong interest in real-world production systems and IoT technologies is essential. The internship requires a high degree of independence and a practical mindset, as the work directly impacts the operation and optimization of the IoT Factory's infrastructure.

The IoT-Factory provides the intern with profound insights into real-life production environments. Within this research environment, a unique setting exists to experiment with real optimizations without financial

risks and cooperate concerns. Through their work, the intern contributes to enhancing the daily operation of the production facility, thus supporting ongoing and future research endeavors. Throughout their tasks, the intern will be supervised by the laboratory engineer responsible for the facility. Therefore, this internship is not offered in a virtual capacity, emphasizing hands-on experience in a genuine production environment.

The IoT-Factory is situated in the heart of Gütersloh's city center, offering easy access to a theater, cinema, and numerous restaurants within walking distance. Gütersloh has an excellent infrastructure with a wide range of shops, schools, medical facilities, and other daily necessities. It enjoys good public transportation connections to surrounding cities, including Bielefeld and the main campus, providing convenient access to other locations. This makes the city an extremely attractive place to live and work, characterized by a strong community spirit and a high quality of life.

For further information, feel free to visit our website (<https://www.hsbi.de/iuM/cfads/en/iot-factory/home>) or contact the laboratory engineer:



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