



Wir bringen Forschung
auf Top-Niveau voran –
und uns selbst.

Veränderung startet mit uns.

Thesis: Feasibility Study on Collaborative Brownfield Factory Planning Using Point Clouds and VR

Fraunhofer IGCV is the first Fraunhofer institute for production engineering in Bavaria. We are shaping the path towards the future of efficient engineering, connected production and intelligent multi-material solutions to ensure the sustainable competitiveness of Germany and Europe.

In cooperation with leading companies from various industries - including automotive, battery cell production and metalworking - we are currently researching solutions for collaborative factory planning. Within the Digital Factory Planning department, we are offering a thesis position at the earliest possible date on the topic "Feasibility Study on Collaborative Brownfield Factory Planning Using Point Clouds and VR."

What you will do

- Plan and conduct workshops to identify a suitable use case or factory area at a brownfield site of a manufacturing company
- Implement, in prototype form, the methods developed in the [CoLa research project](#) for this use case.
- Evaluate the technical feasibility, identify limitations and derive recommendations for action

What you bring

- Studies in engineering, computer science or economics
- Initial experience in factory planning or modeling tools is desirable
- Proficient English, both written and spoken
- A reliable and independent way of working

What you can expect

We offer flexible working hours, excellent equipment and the opportunity to actively shape the field of digital factory planning. As part of a friendly and motivated team, you will contribute to the implementation of exciting research projects and take on responsible tasks with a high degree of creative freedom.

The supervision period for the thesis is designed for up to six months. If the results are sufficiently strong, you may have the opportunity to contribute to a scientific publication. Opportunities for paid employment as a student research assistant beyond the thesis supervision can be discussed if you are interested.

Please note that the job title used applies to all genders. Fraunhofer-Gesellschaft is committed to equal professional opportunities regardless of gender.

Fraunhofer is Europe's largest organization for applied research. Our research fields are guided by people's needs: health, security, communication, mobility, energy and the environment. We are creative, we shape technology, design products, improve processes and open up new paths.

Interested?

We look forward to receiving your complete and compelling application in PDF format, including a cover letter, CV and most recent transcript of records.

For questions regarding this position, please contact: Fabian BERPPOHL | +49 170 24091 35 | fabian.bermpohl@igcv.fraunhofer.de
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