



## Master's thesis: "Digital twin of components"

Are you looking for a practically relevant topic for your master's thesis and want to contribute to optimizing processes and saving important resources? During current research projects in our thematic area of "Data Spaces and Data Systems", **digital twins of components and assemblies** are being developed, which are used as digital component files, but also for data exchange and for planning further processing or maintenance. As part of your Master's thesis, you will work on the conceptual design of such a twin and support us directly in exciting ongoing research projects.

## What you do as part of our team

- Research on the state of the art
- Development of a concept for a digital twin of components
- Development of an initial prototype and connection to existing databases

## What you bring along

- Bachelor's degree in computer science, engineering, natural sciences or a comparable field of study
- Interest in applied research and working in an interdisciplinary team
- Good English and basic German language skills

## What you can expect

- Insight into a cutting-edge subject relevant to the industry
- Innovative anvironment at the interface between research and application
- Flexible organization of working hours

Fraunhofer plays a central role in the innovation process by focusing on key technologies of relevance to the future and on the utilization of the results in business and industry. As a trailblazer and driving force for innovative developments and scientific excellence, it helps to shape our society and our future.

**Have we caught your interest?** Then simply send us an e-mail with your background or experience (if available) and your current semester. We look forward to getting to know you!

We will be happy to answer any questions you may have about this position: Frank Leinenbach, M. Sc. | <u>frank.leinenbach@izfp.fraunhofer.de</u> | Phone: +49 681 9302-3627

