

Doctorate in dental implantology (m/f/x)

You have recently graduated in dentistry, medical technology or a closely related discipline with very good results and are motivated to explore new avenues in research together with us? Then you are the right person for us.

We, ADVANTIQX, a medical technology start-up for dental implantology, have several doctoral thesis and research topics to offer and would like to enable researchers to do a doctorate in dental topics. At the universities TU Braunschweig, TU Darmstadt as well as the University of Innsbruck, research and doctoral theses have already been initiated by us. Our projects are covered by state subsidies.

We believe that no compromises should be made with implants. Dental implants must be simple and safe. For patients, as well as for doctors. That is why we are researching new constructions, designs, materials, digital processes and services in implantology. Today, there are about 300 dental implant systems in existence, each with its own pros and cons. Our vision is that our implant system should combine the advantages of the different systems and eliminate the weak points.

Currently, we have to make compromises in selecting an implant:	
One-piece or two-piece implants? Ours is to be a two-piece implant, which nevertheless behaves mechanically like a one-piece implant.	Ceramic or titanium implants? It should be a titanium implant in the core and receive a ceramic layer on the surface to the bone.
Tissue or bone level implants? In terms of handling, it should behave like a tissue-level implant, but, similar to a bone-level implant, it should not shine through at the bone level, which increases acceptance by the patient.	Tapered or butt-joint connection? Our patent-pending connection, which combines an external cone with a butt joint, will prevent the cone from tipping over and allow more precise, predictable height positioning of the body.

This project is very research-intensive, as everything has to be justified in detail. Ideally, you have already worked with implants, but for us a broad and excellent basic education in medical technology is more important than any previous knowledge. With your very good medical-technical knowledge and probably already existing first technical experiences you will be able to get used to the job quickly.

We offer several PhD topics in the field of implantology, including:

- Requirements for an implant system from a technical point of view
- Load tests, screw-in tests, etc. of an implant
- State of the art with regard to fretting and wear corrosion
- Precision of digital systems in implantology
- Requirements for a digitally capable implant for the digital workflow.

If you are interested in one of these topics or have your own ideas for a suitable topic, please contact us. Go to our homepage to learn more about us. Please feel free to send us your application documents with a meaningful curriculum vitae, an overview of your grades or certificates and links to your theses at any time:

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Thank you very much for your application. We are looking forward to you!