

For Students: Development of a Concept for seated treatment in Radiation Therapy



Internship/Thesis/Working Student Position (Robotikum) Are you studying and looking for an exciting position for your practical semester, an internship, or your final thesis? Then BEC Robotics is the right place for you! We continuously offer dedicated students the opportunity to collaborate on exciting topics in the field of robotics. Let's shape the future together!

Introduction Traditionally, tumor radiation therapy is performed with the patient lying down. However, recent trends show interesting advantages of a seated treatment, such as increased patient comfort and improved accessibility. The aim of this project is to develop an innovative concept for seated radiation therapy using the exacta robotic system. The focus is on analyzing the technical requirements and implementing them in a well-thought-out conceptual study.

Your Tasks:

- Develop a concept to expand our robot-based patient positioning system, exacta, with a patient chair.
- Ensure that all requirements are met by analyzing customer data, competitor products, and the current state of technology.
- Work in a team on complex topics, such as implementing position tracking or exploring possibilities for patient stabilization.
- Visualize your concept in simulations and - ideally - create an initial prototype!

Your Profile

- You have knowledge of product design, construction, or a related discipline
- You have good English skills and feel comfortable in an international environment
- You are proactive, structured, and enjoy working in a team
- You are studying mechanical engineering, medical technology, mechatronics, product design, or a comparable field

During your time with us, we offer:

- Flexible working hours tailored to your needs
- Access to modern equipment to ensure efficient work
- Free drinks to keep you refreshed and energized
- A diverse and family-like team where everyone matters
- Exciting events and shared experiences

Are you interested in BEC Robotics?

We look forward to receiving your complete application (CV, cover letter, and certificates). Please specify your desired starting date, duration, and type of position (internship, thesis, or working student role). Join us and become part of our team at BEC Robotics!

