



Internship in the field of biomechanical simulation – September/October 2025, 6 months

Schönkirchen / Kiel

As a member of the R&D Simulation Team, during this internship you will primarily learn and contribute to the advanced bone morphology analysis tools for the development of new orthopaedic medical devices.

Our offer for you

- You will define physiological loads and failure modes and learn about different treatment approaches through training, literature review and internal databases.
- You will use numerical simulations such as finite element analysis, musculoskeletal modelling and CAD software to evaluate new design concepts and physical test setups for a new orthopaedic implant.
- You will work with your physical testing colleagues to adapt the physical test to meet your simulation validation requirements.
- Understand the reporting of simulation results for medical devices and the relevant standards (ASME V&V40) and contribute to the proper documentation of your simulation work.
- You will collaborate with and present your work to various stakeholders and become familiar with the new product development process for orthopaedic medical devices.

What makes you stand out

- You are enrolled in an engineering degree programme (e.g. biomedical engineering, medical informatics), preferably at Master's level.
- You have a basic knowledge of anatomy and ideally some experience in medical engineering. You are enrolled in an engineering degree programme (e.g. mechanical engineering or similar), preferably at Master's level.
- You have a basic knowledge and interest in numerical simulations (finite element methods and musculoskeletal modelling) and have gained initial experience with the corresponding software tools (e.g. Ansys, Abaqus, Anybody, etc.) as well as with CAD (e.g. Creo, SolidWorks, etc.).
- Your analytical skills and your solution-oriented and scientifically precise working style make you a valuable team member.
- You are proficient in MS Office applications and have a very good command of English and ideally a good command of German.

Duration: 6 months

Start: September or October 2025

Location: Schönkirchen near Kiel

We offer an: attractive salary, generous holiday entitlement, training and mentoring and flexible working hours.

Your application

We look forward to receiving your online application. Please use the QR code or visit careers.stryker.com and search for the reference number **R528054**.





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Company overview

Who is Stryker?

Stryker is a global leader in medical technologies and, together with our customers, we are driven to make healthcare better. We offer innovative products and services in MedSurg, Neurotechnology and Orthopaedics that help improve patient and healthcare outcomes. Stryker products and services are available in over 75 countries around the world. For more information, please visit our website at www.stryker.com.

Our mission

Together with our customers,
we are driven
to make healthcare better.

Awards



By the numbers



75+ countries

where our products are sold



\$1.4 billion

spent on R&D in 2023



\$20.5 billion

in annual global sales in 2023



~52,000 employees

globally in 2023



12,900+ patents

owned globally in 2023



7 consecutive years

as a World's Best Workplace