InSimo is a startup company focused on software design and development for medical simulation. These applications allow surgeons to train on high fidelity simulated organs with true to life surgical interactions. Real surgical feeling, anatomical realism and unlimited interactions are powered by an uncompromising mechanical modeling which is definitely required to satisfy the next generation simulators ambitions: ultra-realism with faster development phases. InSimo benefits from state of the art technologies coming from its academic research origins and is still highly involved in research collaborations to continuously break technological barriers. Our current main goal: Ensure the success of a highly challenged ambition supported by the HelpMeSee organization. Its objective is to eradicate blindness due to cataract by 2030 with the help of a high fidelity eye surgery simulator.

At the core of the French Tech Strasbourg medtech campus, hosted in the IRCAD and close to the Strasbourg Institute of Image Guided Surgery, InSimo takes advantage of a great context of industrial collaborations, startups development support and strong medical expertise.

Your Work. We’re looking for a R&D Software Engineer to strengthen our physics-based simulation development team. In a stimulating and dynamic environment, you’ll be responsible of the implementation of simulation features based on the SOFA Open Source Framework both in clients and internal R&D projects. You’ll be also involved in our simulation engine development to provide powerful and easy to use solutions for high fidelity surgical training.

- Strong C++ skills with a good ability in software engineering (code quality, efficient and scalable designs...)
- Good knowledge of physics based modeling (solid mechanics, biomechanics...) and real time computer graphics.
- Good command in at least one of these domains: interactive software simulation, haptics rendering, real time collision detection and response, numerical analysis, geometric modeling.
- Curiosity, autonomy, creativity and ability to make proposals.
- Very good team spirit and good command of both French and English language.

- Permanent contract (CDI) based in Strasbourg (France) as soon as possible
- Casual international workshops and missions.
- 30 to 40K€ salary depending on profile and previous experience.
- 13th month salary bonus, complementary health insurance and “Titres Restaurant”.