

# RADIATE

## Structural Simulation Engineer

Do you thrive in a fast-paced, highly motivated, and agile environment? Do you have a passion for delivering the highest quality engineering solutions to help solve challenges and improve product performance, bringing the next generation of products to life? Are you scientifically rooted and feasibility-oriented? If that sounds like you, go on reading!

For our Zurich office, we seek a highly skilled Structural Simulation Engineer to join our product development team (80-100%) as soon as possible.

Radiate Engineering & Design is specialized in developing innovative and lightweight products and solutions ranging from Bikes to UAVs and more. The ideal candidate will have a strong background in mechanical engineering and significant experience with structural simulation embedded in a product development process, as well as advanced (python) programming skills.

As a Structural Simulation Engineer, you will be responsible for using simulation software and techniques to analyze and optimize the structural integrity and performance of products, structures, and mechanical solutions. By means of simulation, you will open up new innovation fields, pushing the boundaries for our clients. You will also perform mechanical testing in our in-house lab using different types of sensors, data acquisition, and post-processing methods to optimize the simulation models and correlate reality.

You will work closely with our design engineers and customers to ensure that our products meet all relevant requirements, standards, and specifications, embedding simulation technologies early in the development process. In this role, you will have the opportunity to use your expertise to drive the development of cutting-edge products that push the boundaries of what is possible.

### Key responsibilities:

- Thrive in a fast-paced, highly motivated, and agile environment
- Being passionate about delivering high-quality engineering solutions to solve challenges and improve product performance
- Use simulation software to analyze and optimize the structural performance and behaviour of products, structures, and mech. functions
- Perform in-house testing, data acquisition, and advanced post processing
- Closely collaborate with design engineers and customers embedded in a development team
- Take responsibility for the structural design within our developments
- Continuously improve our simulation processes and techniques
- Communicate simulation results to non-technical stakeholders and customers
- Stay up-to-date with the latest developments in the field of structural simulation

### Requirements:

- Master's Degree in mechanical engineering or a related field
- 3+ years of experience in structural simulation (composites) or highly skilled

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- Experienced with Siemens Simcenter 3D and NX Nastran (mandatory)
  - Linear and non-linear static structural
  - Anisotropic material design
- Experienced with Ansys Workbench / Mechanical (supplementary)
- Experienced in working with 3D CAD (ideally Siemens NX)
- Experienced with Python Programming
  - Medium proficiency
  - Important libraries: NumPy, Scipy, Pandas, Matplotlib, Scikit-Learn
  - Basic data analysis (plotting, statistics, regressions)
- Experienced in composite material design & knowledge of manufacturing processes
- Strong problem-solving skills and ability to troubleshoot issues that arise during the simulation process
- Excellent communication and collaboration skills
- A creative mindset with the ability to think out of the box and output driven
- The willingness to learn, professional development and progress

## Extra Plus:

- General domain knowledge in the field of AI & advanced data handling
  - Feature selection & recognition
  - Advanced regression models

## Benefits: At Radiate, you will...

- be part of a dynamic young team that is highly motivated to make a difference
- have the opportunity to actively participate in a flat organized organization to create the best possible working environment
- have a strong contribution to top-notch developments in the field of unmanned civil drones and high-end bike products
- work project-based, on continuously changing challenges, never getting boring
- enjoy 25 vacation days per year
- work in a collaborative hybrid office with a prototyping lab workspace in the heart of Zurich
- have remote work possibilities
- have a good work-life balance – because humans come first

## You are interested?

We look forward to receiving your compelling application stating your salary expectations and earliest starting date. Please submit your application via [getajob@radiate.ch](mailto:getajob@radiate.ch)