



Senior Control Engineer (f/m/d)

Did you know that one single container ship emits more CO₂ than 65,000 cars?

At **CargoKite** we are keen on changing this by developing the sailing ship of the 21st century. We are a diverse team of visionaries, engineers, and environmental advocates united by a common goal: to develop cutting-edge solutions that propel the shipping industry into a more sustainable era.

Are you a visionary with a passion for combating climate change? Do you have a knack for turning groundbreaking ideas into tangible, sustainable hardware solutions? If so, we invite you to join our trailblazing team at CargoKite and shape the future of maritime transportation.

We are seeking a motivated and seasoned **Senior Control Engineer** to join our dynamic team and spearhead the control engineering work of our groundbreaking wind-powered ship class. In this role, you will collaborate with a dynamic group of engineers, naval architects, and researchers to develop cutting-edge control systems for our wind-powered ship class.

Your tasks

- Lead the technological development of control engineering and mentor a team of control engineers.
- Generate detailed work plans, schedules, and budgets for project activities.
- Design control system architectures, including microcontrollers, sensors, and actuators.
- Model and simulate complex hydrofoil, ship and airborne wind energy system dynamics.
- Supervise the selection and implementation of suitable control algorithms.
- Develop reliable test and validation strategies.
- Set up and execute test activities on the test bench as well as on the prototype.
- Collaborate closely with a cross-functional team of engineers, designers, and researchers to develop a robust and reliable control system for ship stabilization and propulsion.
- Work closely with our CTO, providing updates on technical progress, achievements, and any potential roadblocks.
- Play a critical role in securing funding and partnerships by contributing to grant applications, proposals, and technical presentations.

Your profile

- Master's degree or Ph.D. in electrical engineering, mechatronics, robotics, mechanical engineering or similar with specialization in control engineering.
- More than 5 years of professional experience in the field of control engineering.
- Proficiency in modelling and simulation software (e.g. Matlab, Simulink).
- Expertise in system identification, state estimation, sensor data fusion, controller gains tuning, and gain scheduling techniques.
- Knowledge in the area of flight system dynamics and fluid dynamics is a plus.
- Good knowledge of C/C++ or relevant hardware-related programming languages is a plus.
- Experience with the implementation of control algorithms on an FPGA/DSP is a plus.
- Strong problem-solving skills and a hands-on, results-oriented approach.
- Motivated, independent, and reliable way of working.
- Passion for sustainability and environmental responsibility.
- Ability to adapt and thrive in a fast-paced startup environment.

- Fluency in English with excellent communication and interpersonal skills with Interest in interdisciplinary collaboration in a young and dedicated team.
- Proficient German skills are a plus.

What we offer

- Opportunity to join a deep-tech startup as an employee from the very beginning, and contribute to the strategic decision making of the company.
- Outstanding opportunities for personal development through a great deal of creative freedom and a high degree of independence and impact on your team and the company.
- Competitive compensation and equity options.
- A collaborative and inclusive work environment in which we can rely on each other, and which values your contributions and ideas.
- Chance to make a meaningful impact on the future of the shipping industry & our planet.
- Health and wellness benefits (sports, public transport ticket etc.).
- Flexible working hours with the possibility to work from home.

About us

We are CargoKite, a Munich-based early-stage startup developing a new, wind-powered ship class for oversea transportation of freight. We are a spin-off from the Technical University of Munich and aim to decarbonize global shipping. With our high-tech sailing ship we help commercial shipping companies to reduce operating costs, cut emissions by 100% and enable a faster and more customizable shipping service. After recently closing out seed funding round with international top-tier investors from the US and Europe, we are now looking to grow our world-class crew.

At CargoKite, we believe that diversity and equal opportunity are key to success. Therefore, we create an inclusive environment for all employees and are open to diverse applications, regardless of age, skin color, national origin, religion, gender, sexual orientation or other legally protected characteristics.

Do I need to meet all the requirements to apply?

Studies by several different sources have shown that, on average, men will apply for a job if they meet 60% of the application requirements. In contrast, women/non-binary people will seek to match a much higher percentage of the requirements before applying.

We encourage everyone to apply and give us a chance to evaluate your skills and experience. We are all learning on the job, and although the listing above has been carefully compiled, we are also open-minded and interested in hearing about the value you can bring to the role and to us as a company.