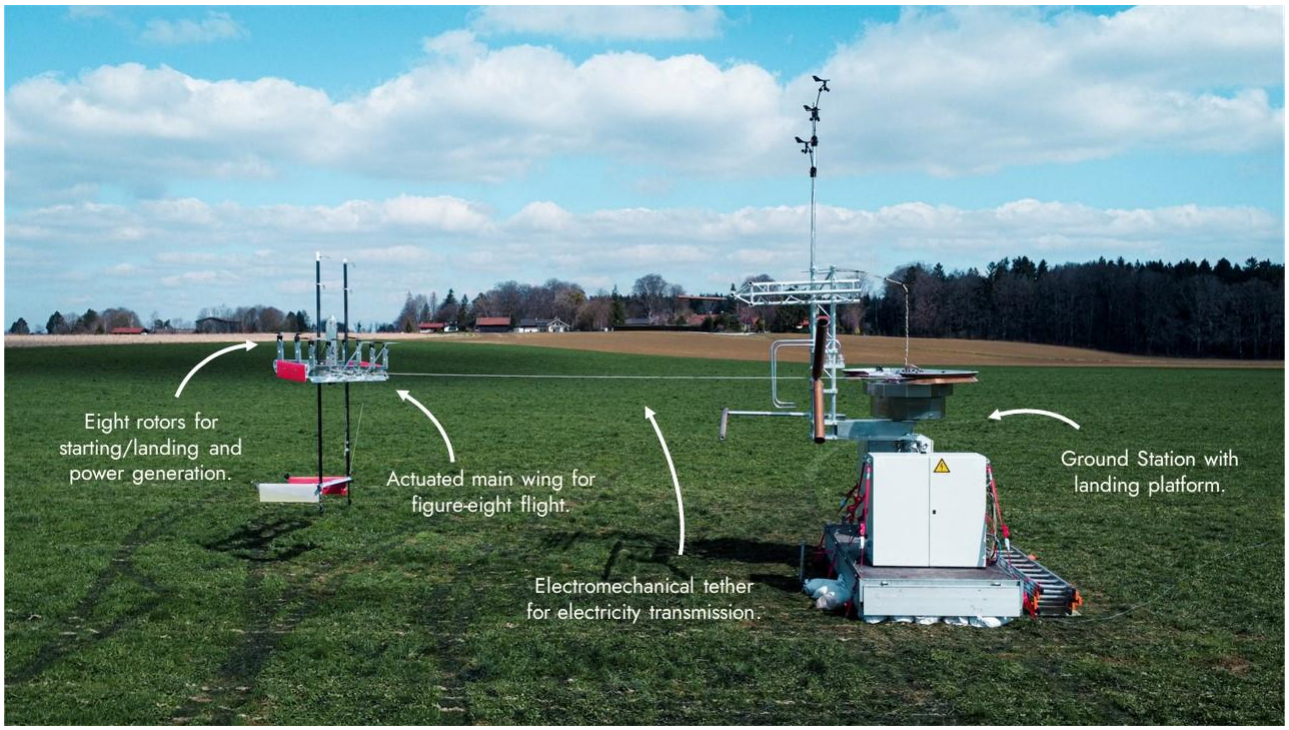
KITE//KRAFT

Vacancy: Working Student for Building and Developing Flying Kites (m/f/d)

20h/week during the semester and 40h/week during semester holidays,
on-site in Munich (Rudolf-Diesel-Straße 26, 85521 Hohenbrunn), Starting immediately.
Kitekraft GmbH, Germany



What We Do

Kitekraft is developing advanced wind power systems: power-generating kites, a.k.a. flying wind turbines, that require 10x less construction material than a conventional wind turbine. A Kitekraft unit will generate electricity cleaner, almost invisible, and at least 50% cheaper than conventional wind turbine of the same power rating, and eventually cheaper than any other alternative. Kitekraft develops and will build, sell, and operate flying wind turbines in the 100kW to 5MW+ range, for both grid-scale energy production and off-grid applications. Further information and videos: https://www.kitekraft.de/

Why We Do What We Do – Our Mission

Our mission is to help solve the climate and energy crisis. Today 84% of primary energy still comes from fossil fuels. All that must be replaced with renewables. Electrification of most sectors is in full swing, additional capacities are required for production of e-fuels and hydrogen for transportation, especially shipping and flying, but also for CO2-neutral steel production and more. We have to at least 10x the current renewable energy capacities. Wind energy will be the backbone of this because of its scalability and availability over the globe. Our flying wind turbines will accelerate adoption and provide a major portion of this since it is cheaper, feasible at more locations, simpler to deploy & maintain, and less visible.

Why join us as a Working Student or Intern?

- Work on exciting topics and challenges relevant to solving the energy and climate crises.
- Deliver something that has never been done before.
- Work on hardware.
- Be at the center of an agile and dynamic team of highly motivated aerospace/wind energy/climate-tech enthusiasts.
- Huge learning potential and the opportunity to build things from the ground up.
- You'll enjoy a high level of freedom and autonomy.
- Flat hierarchy and open communication.

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Possible Working Student/Internship Topics and fields of work

We are continually iterating our designs for our kite, ground station, and tether. This comes along with a lot of practical work regarding implementations as well as design work, model implementation, and more. The base load of work for this position is building new kites we can use for testing. This comes along with other engineering tasks relevant to the iteration and improvement of our system, that you can shape during your work. So, for example, you discover a flaw in one of the aerodynamic casings during the buildup. Then you iterate the design by implementing your ideas in the CAD model and 3D-print it overnight. Next day you add it to the kite. Such iterations could of course also include more lengthy processes, such as setting up a simulation and finding a fitting solution through that.

Who You Are and What You Bring – Requirements

- Student in one of these engineering disciplines or similar: mechanical, electrical, robotics.
- Good skills/background knowledge in the respective tools and methods, e.g.
    - Solid Works
    - electronic circuit design (e.g., KiCAD) and simulation
    - GNU Octave ("open-source MATLAB")
    - Documentation: MS Office, LaTeX
- Good practical skills, e.g.
    - Metal work (drilling, cutting, etc.)
    - Electrical work (cable manufacturing, soldering, measuring)
    - 3D printing
- Motivation in the respective field of science and engineering
- Good English and German language skills
- Open-Mindedness
- Drive to try and make things work
- Renewable Energies Enthusiast

Equal Opportunity

We are open to all groups of people without regard to age, color, national origin, race, religion, gender, sex, sexual orientation, gender identity and/or expression, marital status, or any other legally protected characteristics. Further details: https://www.kitekraft.de/about#code-of-conduct

Find out more!

Website

SCAN ME

YouTube

SCAN ME

Interested? Please apply!

Send your CV, transcript of records, and letter of motivation to work@kitekraft.de. Keep your letter of motivation short (max. 1 DIN A4 page with normal borders and font size), tell us concisely and with past examples why you can fill this vacancy best and fulfill the requirements. Ideally, you tell us about your hardest ever encountered challenge and how you solved it. We will then conduct a video call, ask you questions, give further details, and give you the chance to ask us anything. After that, we make a decision.