

## **Controls, simulation and data engineer**

Do innovative, sustainable energy solutions inspire you? Do you want to help fight climate change and work with some of the largest and most ambitious clients in the world? Aeromine Technologies is about to launch its novel building integrated wind energy technology for industrial/commercial use. Aeromines are ideal for rooftop installations as they have no exposed rotating parts, make no noise and no vibrations.

We have received 5.000+ customer inquiries during the past 4 months, and we are hiring to support customer demand. Our innovative solution was selected by TIME Magazine as one of the best global innovations in 2022. See: [www.aeromine.com](http://www.aeromine.com)

The Aeromine unit uses our own proprietary generator control system to deliver power to the building. This operates in a turbulent and different wind environment than normal wind turbines. Our solution is outside of the box, and we hope you are used to working in a team environment on innovative projects. We are looking to expand and validate our controls simulation tools in order to deliver a robust, quality product and valuable experience for our customers.

### **Responsibilities**

- Develop and maintain our control system simulation environment, including hardware in the loop testing, sensors etc. in collaboration with our hardware development team
- Aggregate data, analyze system performance, and support measurement campaigns with R&D activities
- Support our system level cloud based operating and monitoring platform

### **Qualifications**

- Solid understanding of electrical power generation systems and motor control
- M.Sc. or PhD in control engineering, mechanical engineering, electrical engineering, or similar
- 5+ years' experience with MATLAB/Simulink and embedded software development
- Experience with creating simulation models for electrical and mechanical systems and model-based design and code generation for multiple targets
- Fluent in C, C++, and MATLAB, and with solid knowledge working with Python

### **Competencies**

- \* You are self-driven and have a holistic view of things
- \* You have solid collaboration skills
- \* Solid English writing and verbal communication skills

\* Enjoy working in an international setting with stakeholders at multiple levels, timezones, and locations

### **What we offer**

We value initiative, responsibility and the right balance between creativity and quality in all solutions. We offer an exciting workplace with significant professional and personal development opportunities in an inspiring, international work environment. You will be working in an environment with highly skilled people from a variety of technical areas. You will be shaping the development of a distributed simulation environment that has a key role in securing scalability in the energy transition. You will have flexible working hours and opportunities for remote working.

### **Additional information**

Your work location will be in Houston, Texas, reporting to CTO & Founder of Aeromine. Both domestic and international travel is expected. If the above matches your field of interest and your qualifications, please send a resume and cover letter to Shannon Crow at [sc@aerominepower.com](mailto:sc@aerominepower.com). Applications are handled on an ongoing basis, we do amend or withdraw our jobs and reserve the right to do so at any time, including prior to the advertised closing date. Application deadline is July 1, 2023.