



Contract Research Engineer

Altus Thermal *Somerville, MA*

About Altus Thermal

Altus Thermal is a Boston-based startup rethinking home energy use. We're developing a smart hardware product that will drive higher efficiency, provide greater comfort, deliver a more modern user experience, and increase benefits to the electrical grid. If you want to be an early part of a growing cleantech startup driving substantial climate change, keep reading.

The Role, At-a-Glance

Altus is seeking a US-based Contract Research Engineer for a three month period - there may be the potential to transition to a full-time position after that. This role will partner closely with the founders to accelerate early development and testing work critical to the commercialization of Altus' innovative product. This is primarily a remote/work-from-home role.

What Will I Do?

As a core part of the Altus Engineering team, you will:

- Use EnergyPlus or a similar program to build and run complex whole home energy performance modeling and analyses of Altus' product under a wide range of scenarios
- Leverage the testing above to evaluate and help refine Altus' innovations as they pertain to energy usage, operating costs, and other key parameters
- Analyze and interpret data from field studies to help inform Altus' design decisions and optimize performance models
- Leverage engineering best practices to help define technical targets, testing protocols, and success criteria
- Partner with the CEO and VP of Engineering to help shape the technical vision of the product while ensuring this vision aligns with the broader product vision and business strategy

What Qualifications Do I Need?

We're looking for someone with a proven track record in performance modeling and analysis, including:

- BSc. in Mechanical Engineering or a similar technical field with at least 5 years experience in performance modeling specific to residential energy usage - extra credit if you have experience shipping consumer products, familiarity with control theory, and/or knowledge of the energy industry
- You have a strong foundation in physics, thermodynamics, and electricity fundamentals so that you understand how energy and heat move within the home, and also how the various home energy systems interact with one another, the external environment, and the electric grid (i.e. the building sciences).
- Ability to build and design complex models and simulations, preferably in EnergyPlus or TRNSYS
- Strong analytical skills - the ability to understand the problem-to-be-solved on a deep level and frame up a path to a successful solution; and similarly the ability to interpret testing results on more than just a superficial level
- A reasonable familiarity with hardware design and product development i.e. the ability to model outside of a vacuum
- High comfort level within a fast-paced environment - you'll be helping to build from the ground up so it's important to be flexible and capable of adapting to moving targets
- Self-starting attitude - while Altus is a highly collaborative team environment, we're looking for candidates who can take a general direction then run with it and make it their own

Want to Learn More?

Please email Mike at mting@altusthermal.com with your resume, portfolio, and brief thoughts on:

- Why are you interested in joining an early-stage company/how does it fit with your goals?
- When the time comes for reference calls, what will your colleagues say about you?
- What's your proudest professional achievement?