

Position: Electrical Engineering Intern  
Time: Summer 2017  
Location: Somerville, MA (just outside Boston)  
Contact: [jobs@altaerosenergies.com](mailto:jobs@altaerosenergies.com)



Altaeros Energies seeks an electrical engineering intern primarily to assist in Electrical Design. Additional contribution is sought in at least one of the following areas: 1) Controls & Data Analytics 2) Software & User Interface 3) RF & Telecom. Candidates who have relevant skills in more than one area, involvement in major engineering competitions (Solar Car, Formula SAE, DARPA Robotics Challenge, etc), and prior work experience will be given particular consideration. We are looking for makers – please don't hesitate to share your portfolio with us.

Altaeros' core platform uses a helium-filled, inflatable shell to lift energy generation, communication and other payloads up to 600m above ground. Applications include energy and telecom in rural and remote areas around the world. Altaeros provides a fast-paced, dynamic work environment, and our interns are expected to quickly take on significant responsibility as they work with the team to further the company's goal of commercializing the world's first autonomous tethered airborne platform.

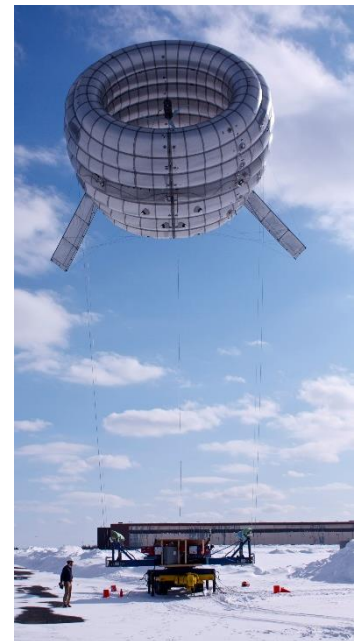
The internship lasts for Summer Semester and includes cash compensation. Altaeros is particularly interested in meeting candidates that may wish to remain involved with the company after the internship ends. To apply please send a resume and brief introduction with the subject [Electrical Engineering Summer 2017 Intern] to [jobs@altaerosenergies.com](mailto:jobs@altaerosenergies.com).

#### Qualifications:

- 2<sup>nd</sup> year or later, 3<sup>rd</sup> year strongly preferred
- Skills and training appropriate to the area:
  - Electrical Design: Electrical CAD, analog circuit aptitude, lab skills, familiarity with drives and industrial controls
  - Software: LabView, .NET (especially WPF), OPC UA
  - Controls: Matlab & Simulink, mathematical aptitude
  - RF & Telecom: familiarity Antenna Design, EM propagation, and RF & Microwave test equipment
- Ability to work independently to achieve deliverables
- 'Startup Attitude': Quick learner, passionate, nimble & adaptable

#### Responsibilities/Activities:

- Electrical Design: Designing electrical panels, building & testing all-weather electrical systems, field testing & debugging of sensor, data acquisition & drives
- Controls: Designing coding and debugging control logic in Matlab/Simulink, processing and analyzing test data
- Software: Designing user interfaces and M2M communication
- Telecom: Simulating signal propagation to estimate coverage quality. Building transmission systems from off-the-shelf components to characterize performance.



#### About Altaeros Energies, Inc.

Our mission is to deliver the next generation of infrastructure to rural and isolated communities around the world - and to have fun doing it! We combine proven technology with flight control innovations that enable cost effective autonomous deployment of tethered airborne platforms. Applications for Altaeros' products include power generation, telecommunications, and technology enabled agricultural services. Founded in 2010, Altaeros launched the world's first fully functional airborne wind turbine in 2012 and is now working to develop the first commercial version. Altaeros Energies is a member company of Greentown Labs in Somerville, MA, the largest Cleantech incubator in North America.