



Mechanical Engineer Opportunity

About us

Solaflect Energy was founded in 2007 to develop a novel, lightweight heliostat for Central Receiver Concentrated Solar Power systems. Solaflect's design eliminates over 65% of the steel used in traditional heliostat designs by using cables to suspend the heliostat mirrors. Recently, we have begun work on a contract from the Department of Energy's SunShot Initiative to conduct advanced research and development on the heliostat. In addition, we are developing a commercial-scale hot water system.

We are a small but growing team of professionals committed to substantially lowering the cost of solar energy generation through aggressive material reduction and other innovations in heliostat design.

Solaflect is located in Norwich, VT in the heart of the Upper Connecticut River Valley, just across the river from Dartmouth College. The region is particularly great for a host of outdoor activities, from hiking and biking to climbing and skiing.

Opportunity

Solaflect is looking for a Mechanical Engineer to join the engineering team. We are seeking candidates who are self-motivated, driven problem solvers, and team players. You will have the opportunity to do everything from analyzing and designing mechanical components to building prototypes, including:

- 3D modeling with SolidWorks;
- Finite element analysis of structures and components;
- Detailed analysis of suspension structure using Matlab and SW Simulation;
- Analysis of drive systems, bolted joints, bearings, etc.;
- Experimental design for heliostat characterization and testing;
- Analysis of gathered data;
- Assessment of technical issues for possible improvements;
- Prototyping of designs and ideas;
- Continuation of heliostat controller development;
- Thermal and process design and analysis of concentrated hot water system.

We believe the ideal candidate will have:

- B.S., B.E. or M.S. in Mechanical, Electrical or Optical Engineering, or equivalent;
- 3 to 5 years of experience in engineering design;
- Proficiency with SolidWorks, especially Simulation/COSMOS;
- Proficiency with MS office, especially Excel;
- Proficiency with Matlab;
- Ability to travel for testing and installation of heliostats in US locations;
- General electronics knowledge.

Please email your cover letter and resume to resumes@solaflect.com