Position: Thermo-Mechanical Engineer Interns

Location: Somerville, MA

Job Type: Summer Internship (2017) – 12 Weeks, 40 hrs/wk

CoolChip Technologies makes next-generation coolers which eliminate the need for fans in semi-conductor cooling. Our patented & patent-pending kinetic cooling technologies deliver a 2-5X advantage across heat transfer, acoustics, and form factor, in applications as diverse as computers, drones, LED lights, and medical equipment. We’ve made it our mission to create significantly better consumer experiences -- across devices -- enabled by better cooling.

**The Opportunity**

CoolChip is seeking 1-2 Thermo-Mechanical Engineer Interns to join its Somerville engineering team for Summer 2017. This is a unique opportunity to work directly with a technical co-founder in a fast-paced, complex environment.

**Primary Responsibilities**

We are looking for interns in two general areas: testing and simulation.

Testing-related responsibilities include:

* Use Labview and MATLAB to automate testing and DAQ
* Generate CAD models of coolers, cooling systems, and testing fixtures
* Assist with in-house prototyping and assembly efforts, including 3D printing, laser-cutting, and lathe/mill machining
* Perform thermal, acoustic, and airflow testing

Computational responsibilities include:

* Generate CAD models of coolers and cooling systems to be used in computational fluid dynamics (CFD) and finite-element analysis (FEA) simulations.
* Perform CFD and FEA simulations
* Post-processing of simulation results, including thermal, airflow, and acoustics performance

**Requirements**

* Must have completed junior year in mechanical or aerospace engineering
* Must have completed the following coursework: thermodynamics, fluid dynamics, heat transfer, engineering statics and dynamics