Job Posting

CfD Mechanical Engineer

Co-op/Internship

Desired Class Level(s)

3rd Year Junior, 4th Year Junior/Senior, 5th Year Senior, 6th Year Masters

Work Authorization

Answer CPT/OPT Interest Question below

Desired Skills

Manufacturing Cryogenics Mechanical Engineering

Assemby Modeling CAD SolidWorks

Thermal Design

Description

TO APPLY, SEE APPLICATION INSTRUCTIONS IN "REQUIRED SKILLS" SECTION. Will ONLY consider third year or later students with 3.0 GPA or higher. The successful applicant must be a U.S. Citizen.

We are seeking Co-Op students to fill a position at the CfD focusing on mechanical and cryogenic engineering for a custom-designed cryogenic Fourier Transform Spectrometer that will be used to calibrate next-generation far-infrared detectors for astrophysical applications. This position is for an engineer with knowledge of mechanical design, manufacturing and assembly, and thermal design and modeling. An outstanding work ethic, excellent team work skills, and an ability to work with local collaborators, NASA engineers, and outside vendors is required.

For a description of the lab, see http://ridl.cfd.rit.edu/.

The Center for Detectors designs, develops, and implements new advanced sensor technologies through partnership with academic

Important Dates

Posted On:

Jul 10, 2020

Application Deadline:

Sep 18, 2020

researchers, industry engineers, government scientists, and university/college students. Currently, the Center has approximately a dozen funded projects funded by a range of sponsors, including NASA and NSF. The detectors that are being developed in the Center cover an immense range of diverse applications, including astrophysics, biomedical imaging, Earth system science, and inter-planetary space travel.

Essential Functions

Designing and managing the fabrication of a custom scientific instrument, in collaboration with a team of students, staff, and faculty. Managing vendor requirements, expectations, and communications. Completing tasks on schedule and in-budget.

Skills Required

High level of personal responsibility and the ability to work well in teams. A technical background is required, with a preference for students of mechanical engineering. Solid knowledge of mechanical design, manufacturing, and assembly, and thermal design and modeling is required. Excellent mastery of CAD (preferably SolidWorks), Microsoft Word, Excel, and PowerPoint required. Superb email etiquette. Excellent verbal communication skills, especially on the phone.

APPLICATION INSTRUCTIONS:

To apply, send an email to admin@cfd.rit.edu and use "CfD FTS ME" in the subject line with the following attached: a resume, unofficial transcripts, and three names of professional references.
Also, please include in the email confirmation that you are a U.S. Citizen.

Qualifications

High level of personal responsibility and the ability to work well in teams. A technical background is required, with a preference for students of mechanical engineering. Solid knowledge of mechanical design, manufacturing, and assembly, and thermal design and modeling is required. Excellent mastery of CAD (preferably SolidWorks), Microsoft Word, Excel, and PowerPoint required. Superb email etiquette. Excellent verbal communication skills, especially on the phone.

Location

Rochester, New York United States

Remote work possible.

Salary Level

Commensurate with Experience

Requested Document Notes

Three names of professional references.

Additional Documents

Cover Letter, Unofficial Transcript, Other Documents

Hours Per Week

35 - 40