



YZ

MENU

View

Edit

ENGINEERING INTERN FOR THERMOFLUIDS MODELING

Job Details

Description

Orien Energy Inc. is an early-stage startup company that's revolutionizing waste heat recovery in heavy industries. Waste heat is ubiquitous in industrial processes, especially in the low-temperature range. Waste heat in water, either in the format of humid air or warm water, contains significant quantity of energy at very low quality. This low grade waste heat is hard to re-use efficiently by traditional approaches. Orien Energy is trying to address this challenge by integrating water adsorbing materials into an innovative heat pump system to convert this low grade waste heat into premium process heat for industrial end-users in a highly-efficient, sustainable, and affordable manner. Our technology is a platform solution that is applicable to many industry sectors including pulp & paper, food & beverage, petrochemicals, and data centers.

As the Engineering Intern, your job entails assisting in refining a heat and mass transfer model for guiding the design of Orien Energy's innovative adsorption heat pump. Depending on your strengths and interests the internship can be tailored accordingly, though you will get experience in experimental design, heat transfer modeling, and mass transfer modeling. You will be working directly with and mentored by the lead Mechanical Engineer, Dr. Zachary Welker on a day to day basis. You

English



chance to work closely with the CEO and founder Dr. Yajing Zhao, who is an MIT course 2 alum (PHD'22). Experience in heat transfer and/or thermodynamic modeling is preferred.

Internship Location

Remote/Hybrid in Somerville 02143

Eligible Applicants

College Students

Sector

Energy Efficiency

Job category

Engineering

Primary activity

Engineering/Research

Number of interns requested

1

Hourly Pay

\$22.00 / hr

Pay Schedule

Biweekly

Contact Information**First name**

Yajing

Last name

Zhao

Email

yjzhao@orien.energy

Job title

CEO

Phone

6179225216

I agree

I agree

Employer of Record

Orien Energy

Host Employer

Orien Energy

Stay connected to Massachusetts' clean energy scene.

Subscribe

294 Washington St., 11th Floor
Boston, Massachusetts 02108

Phone: 617-315-9300
Fax: 617-315-9356