



RESEARCH ENGINEER

COMPANY NAME: **Industrial Heat**

CATEGORY: **Chemistry/Materials
Data/Analytics
Engineering**

STATUS: **Full-Time**

POST DATE: **4/12/2019**

CONTACT EMAIL: **@industrialheat.co**

DESCRIPTION:

Job Overview

The Research Engineer is responsible for designing, preparing, running, monitoring, testing, and measuring experiments with the objective of turning the experiments into commercially-viable technology. Engineers in this role use knowledge of chemistry, physics, electrical engineering, and materials science along with previous significant R&D lab experience.

The successful candidate must be a self-starter with experience in going from lab-scale experimentation to pilot-scale development (any commercialization experience is beneficial). The focus of this role is on early- to mid-stage development, with a demonstrated ability to participate in complex technical projects or function as part of a larger team and integrate results and knowledge across the overall R&D program. Excellent collaborative skills across functional areas is a must. Attention to detail and emphasis on safe work practices, is required.

Job Duties & Responsibilities

- Collaborate with other scientists and engineers to identify and initiate experiments.
- Prepare and fabricate materials, set-up experiments, and run, monitor, measure, and analyze the results of complex experiments.
- Participate in complex science and technology development projects which may span the range from conception through pilot-scale and initial stages of product development.
- Schedule, organize and report the status of research activities.
- Plan and modify research techniques, procedures, tests, or software tools.
- Interpret and analyze data as needed for research and engineering efforts. Collaborate with others to automate data capture and analysis.
- Participate in the production of comprehensive documented plans, observations, analyses and interpretations of results including technical reports, summaries, protocols and quantitative analyses.
- Plan and carry out project responsibilities with limited assistance and direction while providing appropriate updates to stakeholders.

JOBS

UIUX Design Intern - Summer 2019
AGCO ACCELERATION CENTER

Software Engineer - Build/Release
Manager
FORCEPOINT

EnterpriseWorks Customer
Service/Student Worker -Fall 2019
ENTERPRISEWORKS AND RESEARCH PARK STAFF

Device Developer
ABBVIE

Customer Success Manager,
Granular Business
GRANULAR

SEE ALL JOBS >>



- Fully comply with company practices and policies to provide protection to technologies, processes, materials, and products.
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- Performs other job-related duties as assigned.

Basic Qualifications (Required Skills and Experience)

- A bachelor's degree in engineering or physical science from an accredited college or university
 - US Citizen or Green Card holder
 - A minimum of 3 years applied research experience in a variety of technical assignments, from characterization to product development, across multiple engineering or physical science disciplines.
 - Excellent laboratory skills and experience including small part fabrication, materials and solutions preparation and maintenance, setting up and testing equipment, measurement, and data capture.
 - Ability to problem solve technical and methodological issues using research techniques, methodology and logical critical analysis.
 - Strong problem solving, interpersonal, team, project management, bench and communication skills.
 - Ability to conceptualize and apply innovative solutions, be flexible, handle multiple projects simultaneously and work well under pressure.
- Self-motivated and ability to work independently and to consistently meet deadlines.

Preferred Qualifications (Desired Skills and Experience)

- An advanced degree in electrical engineering, chemical engineering or a related field.
- Specific knowledge of thermal mechanics and nuclear and radiation science, along with skills and experience in metallurgy, material analytics, data capture with automation.
- Experience with heat flow and thermal measurements.
- Experience with characterization of radiation emissions.
- Experience with ultra high vacuum and pressure systems
- Significant experience with data collection using LabVIEW
- Significant experience with data analysis using Python or similar for statistical analysis

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