

Job Title: Material Engineering Intern

Department: Research and Development

Time commitment: 20hr / week, 2 months minimum, on-site

Compensation: \$15/hr to \$25/hr

Start date: September, 2024 or ASAP

Location: Greentown Labs, Somerville, MA

Job Summary

The Material Engineering Intern will join our Research and Development team, playing a key role in driving innovation and advancing our polymer materials. The ideal candidate should have basic knowledge of material chemistry/engineering, along with lab experience in polymer processing and characterization techniques.

About EcoForge (<https://ecoforge.io>)

“Buildings are responsible for 39% of global carbon emissions, and many building materials are toxic and we spend 90% of our time indoors, leading to both environmental and health problems.”

EcoForge is a material science company dedicated to sustainable, bio-based building materials with the mission of “Keeping Natural Materials Truly Natural.” We provide nature-inspired, ecologically safe solutions that give bio-based materials a competitive edge over traditional ones, addressing cost, supply, fire safety, and performance needs. Our innovations enable bio-based building products to reduce building carbon emissions by up to 60%, save more than 15% on heating and cooling costs, and help their projects secure permits and meet sustainability requirements. Our founding team members graduated from Brown, UPenn, RISD, and UCB. We are backed by Greentown Labs, the largest climate technology incubator in North America.

Responsibilities

- Characterize different binder based on polymer using various characterization methods.
- Evaluate the physical, chemical, and mechanical properties of polymer materials, utilizing analytical instruments.
- Document research findings, experimental procedures, and associated processes in detailed reports and technical presentations.

- Collaborate with cross-functional teams, including engineers, and product developers, to gather requirements, design solutions, and bring new polymer materials to market.

Qualifications

- Pursuing a B.S or M.S in materials science/engineering, chemical engineering, mechanical engineering, or a closely related field. Successful completion of two years of academic classwork and graduate students pursuing an advanced degree are preferred.
- Knowledge of advanced materials characterization techniques such as SEM and FTIR, and analytical instruments, such as DSC, TGA, and universal testing machine is preferred.
- Basic knowledge in polymer chemistry and physics, including knowledge of polymer synthesis, structure-property relationships, and polymer processing techniques.
- Excellent written and verbal communication skills, with the ability to effectively present research findings to technical and non-technical audiences.

Application

Interested?!! Please reach out to Sodium: sodium@ecoforge.io and Caleb: caleb@ecoforge.io along with your CV / Resume.