

Materials Science/Chemical Engineering Internship

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American Boronite Corporation ("Boronite") is early-stage advanced materials company focused on the development and manufacture of ultra-lite superfibers, superfabrics, and supercomposites made of continuous yarns and tapes of BNNTs (Boron Nitride Nanotubes) and CNTs (Carbon Nanotubes), often combined with other materials. Our materials have extraordinary structural and electrical properties that are ideal for electricity storage and distribution, actuation and monitoring, and advanced functional textiles and structural panels. Due to their incredible strength, negligible weight, and unique electrical, thermal and shielding characteristics, we expect our materials to become the backbone of a new class of structures that are multi-functional and offer tremendous cost and energy savings over existing materials.

We are seeking a hands-on, motivated, talented, and high-reaching multidisciplinary materials science/chemical engineering intern for Spring 2019 to help with the production, testing, characterization and analysis of the nanomaterials we produce. In this position you will:

- Design and execute experiments to improve the material properties of our nanocomposites.
- Contribute to the development and characterization of the nanomaterial we produce.
- Assist in analyzing and quantifying our nanomaterial production systems.
- Work with Boronite's engineers and scientists to develop novel applications for our material.

About You:

You are enrolled in a bachelor's degree program in materials science engineering, chemical engineering, or a related discipline. You are a self-starter, skilled at working on teams, know how to ask good questions, and are driven to learn. You are available to work full time during the fall 2018 semester.

Required Skills:

- You are comfortable crafting experiments, gathering data, and analyzing results.
- You feel at home in the chemistry lab and are a resource in chemical process development.
- You can conduct tests to determine structural and electrical properties using various precision instruments (SEM, Instron, RAMAN, etc).
- You are skilled at documentation and maintaining a clean lab notebook.

Bonus skills:

- You are familiar with Ansys, and/or other CFD modeling systems such as OpenFOAM.
- You can maneuver in CAD software such as Autodesk Inventor or SolidWorks.
- You have experience using and/or developing programs in Labview.
- You are knowledgeable about textile manufacturing processes.



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- You are passionate about nanomaterials.

If this sounds like you, submit a cover letter, a CV and names and contact information for two references to Gaby.Waldman-Fried@Boronite.com. Please also include the dates you are available to work full time. We are looking for an intern who can start in February/March and end in May/June.

We are an equal opportunity employer and do not discriminate on the basis of race, gender, sexual orientation, color, religion, national origin, political affiliation, marital status, disability, genetic information, age, membership in an employee organization, parental status, military service, or other non-merit factor. Position is full time (40 hours/week) for the duration of the internship. Unfortunately, due to the nature and source of our government funding contracts, we are unable to hire non-US Citizens. Interns should be able to provide their own transportation to our Burlington, MA office, although if this is not possible we will try our best to help you arrange car pools with some of our employees.

Successful interns will be considered for a full-time position. Boronite offers a competitive salary and generous equity incentives for its employees.