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Senior Research Scientist - Materials Validation

REDWOOD CITY, CA / ENGINEERING – MATERIALS DEVELOPMENT / FULL-TIME

Working at the intersection of hardware, software and molecular science, we are committed to delivering on the promise of 3D printing, enabling commercial customers to go beyond basic prototyping to 3D manufacturing. Our company is built on the idea that diverse fields of study must come together to solve intractable problems. We have grand ambitions to create technology that will influence industry around the world.

We are looking for a highly motivated materials engineer to join the Materials group at Carbon. This candidate will be the key point from the Materials team to collaborate with our Resin Operation team to validate new raw materials and packaging options for Carbon resins. Materials are at the core of what we do. Our materials are used for applications such as prototyping, dental, biomedical, automotive, aerospace, footwear, sports equipment, and many more. This candidate will make significant contributions to the successful and steady manufacturing of Carbon resins.

This role will be based in our Redwood City, CA office.

Responsibilities:

- Lead the validation of alternative raw materials and new packaging options that are used in Carbon's polymer resin products.

- Work with Carbon's resin supply chain team to determine the priority and timeline of validating alternative raws and packaging.
- Develop and execute experimental plans by collaborating with internal subject matter experts. Perform hands-on experiments that could involve liquid polymer resin testing such as FTIR, UPLC, GPC, as well as mechanical property testings of 3D printed polymer materials including tensile, compression and hardness testing, DMA, etc.
- Summarize experimental results, analyze data to present, and drive decision-making based on the findings. Document experimental details thoroughly for data-tracking.
- Handle multiple projects simultaneously and prioritize to meet deadlines.

Requirements:

- BS or MS in Polymer Science, Chemistry, Materials Science, Chemical Engineering, or related fields, with 3 years minimum industrial experience.
- Hands-on lab experience with polymer materials characterization or chemistry is required. The ideal candidate would have direct experience with a broad range of polymer material characterization techniques in both liquid and solid form of the polymer, such as: viscosity, color, GPC, FTIR, DSC, TGA, tensile and tear with Instron, DMA, etc.
- Familiarity and prior experience interpreting and applying laboratory testing standards (UN codes, ASTM or ISO standards) and defining development and validation test plans is highly preferred.
- Experience with UV-curing chemistry and/or polyurethane chemistry is preferred but not required.
- Ability to design and execute experiments, deliver results and document data.
- Strong oral and written communication skills. Highly motivated, passionate team-player who can collaborate with others and thrive in a dynamic team.

#LI-MD1

You do not need to match every listed expectation to apply for this position. Here at Carbon, we know that diverse perspectives foster the innovation we need to be successful, and we are committed to building a team that encompasses a variety of backgrounds, experiences, and skills.

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