Project Leader
Gaithersburg, MD

7-7-2021

The American Dental Association is dedicated to promoting the public's health through its initiatives in research, education, advocacy, public awareness and the development of standards.

Lead, conceptualize, plan, guide, and execute innovative research in the field of dental materials. Perform state-of-the-art research in collaboration with Director(s) and other Project leads and lead the initiatives related to the advancements of dental restoratives (i.e., resins, composites, adhesives, etc.). Contributes to the overall research strategy of the ADASRI, by overseeing the operation of a dental materials research laboratory, in Maryland, with an emphasis on creating new dental materials, polymer systems, exploring polymer reactions and morphology, elucidating durability and degradation mechanisms, and spectroscopic characterization for the development and design of improvements. Analyzing root causes of failures of a wide variety of dental materials using scientific information, testing, and inspections to allow for the design and development of novel and innovative solutions. Collect and analyze data and present results in scientific manuscripts, presentations, and grant applications. Convey scientific results in a high-quality format appropriate for various scientific, business, legal, and regulatory presentations and reports.

Minimum Qualifications:

- PhD in material science/chemistry
- Must have 3 years' experience in theoretical and applied knowledge of materials science, polymer chemistry, or organic chemistry.
- Must demonstrate proficiency in polymer synthesis and polymer characterization, as well as characterization techniques including but not limited to HPLC, GPC, mass spectrometry, SEM, TEM, NMR spectroscopy, FTIR, UV-VIS, and surface characterization.
- Must have theoretical and applied knowledge of materials science, polymer chemistry, or organic chemistry.
- Must be highly self-motivated.
- Must have demonstrated ability to solve difficult technical problems and deliver practical solutions using strong analytical, problem-solving, and decision-making skills.
- Must have the ability to manage staff as a research leader for ongoing research projects.
- Must have the ability to maintain quality, safety and/or control standards.
- Must be able to establish productive collaborations with researchers of different backgrounds.
- Must have excellent materials science and chemistry skills (synthesis, characterization, and validation).
- Must have knowledge of statistical analysis and computer skills.
- Must have excellent communication skills.
- Strong people skills and outstanding problem-solving skills are required.
- Must have attention to detail; accurately collects, compiles, and organizes data.
- Must be able to demonstrate understanding of polymer structure-property relationships for leading the development of a roadmap to evaluate new materials.

- Proficiency in Microsoft Office Suite (WORD, EXCEL & PowerPoint)

Highly Desirable Skills:

- DDS or DMD, in addition, is preferred.
- Strong background in dental material science, new product development, and polymeric materials characterization.

APPLY ONLINE

Equal Opportunity Employer/Protected Veterans/Individuals with Disabilities

Applicants must be legally authorized to work in the United States, and should not require sponsorship for employment.

Travel Required
Yes. less than 10%