



MIDWESTERN UNIVERSITY
Tomorrow's Healthcare Team

College of Dental Medicine - Arizona

Doctor of Dental Medicine (D.M.D.)

Materials Research Specialist- College of Dental Medicine- Midwestern University's Glendale, Arizona Campus

To apply to this position, please visit:

<https://recruiting.ultipro.com/MID1016/JobBoard/14e53f57-a561-4a17-e6ef-fbd661b8b6c1/OpportunityDetail?opportunityId=8ab9cb27-0bf8-4dae-8ad0-0c1c5e609095>

Summary

The Materials Research Specialist will serve as the interface for external equipment and supplies vendors; as such, this position is responsible for compiling orders, receiving, maintaining and inventorying all supplies and equipment for the research program of the CDMA. This position will help oversee the day-to-day activities in the Dental Medicine Laboratories and assist with experimentation by multiple investigators, including students, faculty, and staff members. This person must maintain accurate laboratory records of all experiments. This position will also assist with additional academic and research needs such as keeping attendance when appropriate, assuring laboratory safety of faculty and students, development of research protocols, as time permits. Mechanical testing and cell culture experimentation is performed with minimal supervision by the Director or other members of the lab.

Essential Duties and Responsibilities

- Routinely performs chemical syntheses of biomaterials samples
- Routinely performs mechanical and physical testing of materials
- Routinely performs cell culture and bacterial culture experiments
- Is responsible for performing a wide variety of research procedures with minimal supervision
- Designs and develops new methods and procedures for various research project goals
- Maintains the cleanliness, repair, and organization of the CDMA labs
- Record keeping and maintenance of all equipment
- Maintenance of chemical control sheets (for chemical stored and used in the lab)
- Ordering supplies: Request and receive quotes and process paper and paperless work associated with purchasing supplies and equipment for the labs
- Keeping the laboratory appropriately stocked at all times
- Trains others in laboratory safety procedures with minimal supervision
- Assists with developing new protocols
- Monitor access to the labs and takes on a supervisory role for others working in the lab
- Instructs faculty, staff, and students in equipment usage and laboratory techniques
- Assists faculty, staff, and students in laboratory activities and experiments as directed
- Contributes to laboratory-based research and participates in other activities as assigned
- Is responsible for abstract submissions and poster preparation to support faculty, staff and students as well as their own abstract submissions and poster presentations
- Analyzes data and prepares graphs and charts to support faculty, staff and students as well as their own presentations
- Assists with publications and presentations

- Assists with literature searches
- Designs novel devices and fixtures and develops CAD drawings as needed
- Other duties as assigned

Qualifications

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Must be able to work in a constant state of alertness and safe manner and have regular, predictable, in-person attendance. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and/or Experience

A Bachelor's degree from an accredited institution and a minimum of 7 years' experience or a Master's degree and a minimum of 5 years of experience required. Should have experience in mechanical and physical chemical testing of materials. Experience with culture of mammalian cells and bacteria preferred. Must have excellent organization, communication and interpersonal skills, ability to think strategically and must be highly detailed and organized. Must maintain accurate and detailed records and notebooks.

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