

Position Opening – Materials Characterization Facility at Texas A&M University

The Materials Characterization Facility is seeking to fill an opening for an Associate Research Scientist. The successful applicant will be responsible for managing instrumentation in the Texas A&M Materials Characterization Facility (MCF). The MCF is a centralized instrumentation facility for the fabrication and characterization of advanced materials and integrated micro-chemical devices. A PhD in an appropriate science/engineering discipline is necessary. Duties of the position include: responsibility for the running/upkeep of the MCF spectroscopy instruments (e.g. UV-Vis, ellipsometer, fluorescence instrument, Raman microscope) and confocal microscopes, training graduate and undergraduate students to use these instruments, participation in scientific research with investigators from both TAMU and outside institutions, authorship of scientific publications, and writing proposals to obtain funding for equipment and expenses.

Interested candidates should send a cover letter and resume (including the names and emails of three references) via email to Professor Daniel Shantz, Associate Director of the MCF at Shantz@chemail.tamu.edu

Please see following page for General Summary of Position

General Summary:
Summarize in three or four sentences the general purpose, scope and responsibilities of this position
[Click for additional directions.](#)

This position (Associate Research Scientist) is responsible for managing instrumentation in the Texas A&M Materials Characterization Facility (MCF). The MCF is a centralized instrumental facility for the fabrication and characterization of advanced materials and integrated micro-chemical devices. A PhD in an appropriate science/engineering discipline is necessary. Duties of the position include: responsibility for the running/upkeep of the MCF spectroscopy instruments (e.g. UV-Vis, ellipsometer, fluorescence instrument, Raman microscope) and confocal microscopes, training graduate and undergraduate students to use these instruments, participation in scientific research with investigators from both TAMU and outside institutions, authorship of scientific publications, and writing proposals to obtain funding for equipment and expenses.

Job Duties

8 Records

Essential?	Duty Title	Duties	% of Time
Yes		Maintenance, calibration and validation of over \$3.0 M of state of the art MCF instrumentation which currently includes: UV-Vis NIR, Raman microscope, fluorescence instrument, Ellipsometer, and confocal microscopes	30
Yes		Training users of the MCF facility, including undergraduate, graduate, and postdoctoral students	40
Yes		Scientific collaboration with MCF users from TAMU, other universities, and industrial partners. Formal collaborations include: co-authorship of peer-reviewed publications, proposal submissions, technical reports, and invited lectures.	10
Yes		Develop MCF clientele in the use of MCF instrumentation through hands-on training classes, classroom sessions on instrument operation and theory, and in-lab demonstrations of MCF equipment.	15
Yes		Other duties as assigned.	5