Title: Technician II  
Date: July 2013

Dept: Advanced Structures and Composites Center

Reports to: Engineer V/Scientist VI

Purpose:
Purpose: The purpose of this position is to support the execution of testing projects in the Advanced Structures and Composites Center W² Wind Wave Basin. This will include model building, set-up, instrumentation installation, collection of data, and break down. This position will also lead small teams of engineers and students to execute the work.

Essential Duties and Responsibilities:

• Scope
  o Conducts ASTM standardized tests
  o Conducts model tests
  o Fabricates test specimens and models
  o Establishes test protocol
  o Initiates upgrades in safety programs as required
  o Participate in providing monthly progress reports
  o Operate a variety of standard and specialized technical equipment
  o Provide safety and environmental guidance to staff and students
  o Schedule manufacturing and testing for specific equipment and lab areas
  o Set-up equipment and verify it is fit for use
  o Writes and edits work instructions for assigned projects, executes changes as technology develops
  o Stay abreast of developments in field of expertise and area of responsibility
  o Make recommendations for improvements of internal methods and operations
  o Installs instrumentation and checks quality
  o Collects data

• Budget
  o Researches, recommends and determines specifications for purchase of equipment, materials and supplies for use in research projects

• Supervision
  o Instructs others in the use of equipment
  o Supervises and manages a team of undergraduate students in laboratory activities

• Contacts
  o Train students in composite fabrication and test techniques
  o Communicates with vendors to establish purchase specifications for laboratory materials and non-capital equipment
  o As part of each project, interacts positively with a team of post-doctoral fellows, peers, Advanced Structures and Composites Center laboratory staff, students and faculty

• Performs other reasonably related duties as assigned
Knowledge and Skill Qualifications:
- B.S. in Engineering Technology or technical degree or significant work experience such as construction experience which will lead to successful completion of assigned work.
- Hands-on related manufacturing experience including fiberglass, machining, carpentry, and construction.
- Demonstrated experience in technical drawing using solid works, AutoCAD or similar software as well as Word and Excel.
- Demonstrated successful experience in conceptual design and design modifications.
- Excellent organizational, oral and written communication skills required.
- Trained in safe work practices around power tools and large equipment, and ability to train others in these practices.
- Ability to work independently as well as in a team environment with faculty, post-doctoral fellows, lab technicians, management, students, and research sponsors required.

Position Type: Contingent on funding and successful performance.

Work Schedule: Normal University of Maine business hours are Monday through Friday 8:00 am to 4:30 pm. Work outside of normal business hours will be necessary in order to complete the requirements of the position.

Work Environment:
Work will be performed at the Advanced Structures and Composites Center 100,000 ft2 laboratory with a world-leading team of over 150 faculty, staff and students who conduct contract research with a variety of public and private entities.

Schedule for Evaluation: In the initial six months of employment and annually thereafter in accordance with the UMPSA agreement.

Salary: This position is in Salary Band 3, Job Family 7.

The finalist for this position must complete a pre-employment physical.

All UMS employees are required to comply with applicable policies and procedures, as well as to complete applicable workplace related screenings, and required employee trainings, such as Information Security, Safety Training, Workplace Violence and Sexual Harassment.

Appropriate background checks will be required.