

**JOB DESCRIPTION
Mechanical Engineering Lab Instructor**

JOB DETAILS			
Position Title:	Mechanical Engineering Lab Instructor	Grade	
Department/Division:	Mechanical & Industrial Engineering		
Reports to:	Department Chair		
Supervises:	None		
Last Updated on:	March 2, 2026		

THE POSITION

The Department of Mechanical and Industrial Engineering is seeking applications from qualified candidates with a strong commitment to hands-on engineering education and student support.

This Lab Instructor position requires a Mechanical Engineering professional with expertise in operating, maintaining, and supporting teaching laboratories and workshop facilities associated with the Mechanical Engineering curriculum. The role involves supporting lab-based courses, senior design (MSD), prototyping activities, structural mechanics and materials testing labs, and additive manufacturing facilities.

MAIN DUTIES & RESPONSIBILITIES

- Operate, maintain, and troubleshoot mechanical engineering laboratory and workshop equipment, including structural mechanics and materials science testing systems.
- Supervise and support students in workshop activities, prototyping, fabrication, and senior design projects.
- Oversee safe operation of machinery such as lathes, milling machines, CNC machines, saws, and other fabrication tools.
- Ensure proper equipment setup, calibration, and compliance with laboratory and workshop safety standards.
- Maintain and manage laboratory inventory, consumables, spare parts, and procurement processes.
- Assist faculty in developing, improving, and modernizing laboratory experiments and hands-on activities.
- Perform routine maintenance and minor repairs on laboratory and workshop equipment.
- Coordinate with vendors for servicing, equipment upgrades, maintenance contracts, and technical support.

REQUIRED QUALIFICATIONS FOR THE POSITION

- Education: A master’s degree in Mechanical Engineering or a closely related field is required.
- Experience: 2–3 years of experience in a technical laboratory, workshop, or industrial environment. Prior experience supporting academic labs, senior design (MSD), or project-based learning activities is highly desirable.
- Technical Skills:
 - Proficiency with mechanical engineering software such as MATLAB, ANSYS, LabVIEW, and Autodesk Inventor.
 - Strong hands-on workshop experience with various machinery, including lathes, milling machines, CNC machines, drill presses, band saws, and general fabrication and assembly tools.

- Experience operating structural mechanics and materials science laboratory equipment, such as universal testing machines (tension/compression), hardness testers, impact testers, torsion and bending apparatus, strain measurement systems, and other mechanical characterization instruments.
- Expertise in additive manufacturing (FDM/FFF 3D printing), including slicing software, printer setup, calibration, troubleshooting, material selection, and routine maintenance.
- Thorough understanding of laboratory and workshop safety protocols, risk assessment, and safe equipment supervision.
- **Soft Skills:** Strong problem-solving and troubleshooting abilities; effective communication and mentoring skills; ability to supervise students in a lab/workshop environment; organized and proactive in maintaining lab readiness, safety compliance, and equipment upkeep.

DEADLINE: Applications will be reviewed until the position is filled.

START DATE: August 1, 2025

APPLICATION AND NOMINATION

Please submit the following items as part of your application to careersdubai@rit.edu:

- The subject line must include your name and the position you are applying for.
- CV
- Names, addresses, and phone numbers of three references
- Certificates related to the job (if applicable)

The review of applications will commence immediately and continue until a suitable candidate is selected. Only shortlisted candidates will receive further communication. For additional information, please visit the RIT Dubai website at www.rit.edu/dubai.