American Center for Mobility
Job Description

**Job title:** Vehicle Test Support Technician

**Location:** Willow Run, Ypsilanti, MI

**Reports to:** Vehicle Test Support Engineer / Technical Director

The American Center for Mobility (ACM) is a global development center for transforming the way industries advance safe, sustainable, and secure mobility technologies. ACM offers: an Advanced Mobility Proving Ground with test environments featuring specialized infrastructure, equipment, facilities and resources; An EV Charging testbed for testing EV charger performance; An innovation and technology campus with an industrial tech park for the co-location of mobility companies; Event and demonstration areas for showcasing mobility technologies and convening industry activities. The American Center for Mobility is open to private industry, start-ups, government, standards bodies, and academia.

**Overview:** As a Vehicle Test Support Technician, you will be supporting the vehicle tests programs through installation, calibration, maintenance and troubleshooting of test equipment, both mechanical and electrical/electronic components. You will be working closely with test engineers to perform field and lab testing, vehicle system integration, HW / SW upgrade, and data acquisition/recording. Working with internal and external partners, you will support the execution of comprehensive test programs to validate the functionality and effectiveness of in-vehicle technologies contributing to the development of next-generation vehicles equipped with intelligent automation capabilities. This is an ideal job for a hands-on person with diverse interests and experience. Given ACM’s broader focus on safe, secure and sustainable mobility technologies, this position may allow exposure and potential opportunities to projects in ADAS, CAV, and EV.

**Responsibilities:**

1) **Test Plan and Test Execution:** Collaborate with cross-functional teams to conduct testing activities, including functional testing, and scenario-based testing, to assess system behavior and performance under various conditions and validate adherence to test specifications and requirements. Ensure that test execution is as per test plans, and document test results and make them available to team members.

2) **Instrumentation and Integration:** Installation, calibration, and maintenance of test equipment. Ability to conduct instrumentation, diagnose/troubleshoot problems, conduct tests, change out components, remove instrumentation as needed.

3) **Data Collection:** Support collection, storing and maintenance of test data using advanced measurement tools and techniques.

4) **Issue Identification and Resolution:** Identify, troubleshoot, and resolve issues encountered during test preparation, testing, collaborating closely with engineering teams to diagnose root causes, implement corrective actions, and verify effectiveness through iterative testing cycles.

5) **Cross-Functional Collaboration:** Work with internal and external cross-functional teams including software engineers, hardware engineers, systems integrators, and project managers to align testing efforts with project goals, drive continuous improvement.

6) **Tracking and Progress Reporting:** Regularly update project stakeholders on testing progress. Provide timely updates on progress, risks and any potential impact on project timelines.

**Skills and Qualifications:**

- Associate degree or Diploma in Engineering or related areas.
- 2 to 4 years of related proven experience in automotive testing environment on closed track and/or on road.
- Ability to vehicle instrumentation encompassing differential GPS, IMUs (Inertial Measurement Units), onboard energy measurement systems, vehicle CAN bus infrastructure and logging, CV2X OBU, sensors (LiDAR, Radar, Camera) etc.
- Ability to handle and operate pedestrian soft targets, robotic platform, traffic light controller etc.
• Understanding of 12V electronics, engine and drive train components and their functions.
• Ability to work in fast-paced multi-tasking environment with shifting priorities and demanding deadlines.
• Must be detail-oriented and must be able to effectively prioritize and organize workload, with efficient time management.
• Ability to communicate and interact effectively in verbal, written and presentation format.
• Must possess the fundamental technical and administrative skills required to perform the job duties.
• Must be customer focused and quality driven.
• Be aware of and adhere to safety practices and policies.
• Strong commitment to safety, quality, and continuous improvement in all aspects of work.

**Desired Qualifications:**
• Familiarity with sensor technologies (e.g., LiDAR, radar, cameras) and in-vehicle integration of sensors.
• Familiarity with AV platforms.
• Familiarity with EV Charging equipment and interfaces is a plus.
• Familiarity with CV2X system and RSU.

**Additional Requirements**
Qualified candidates must be legally authorized to be employed in the United States. The employer does not anticipate providing employment related work sponsorship for this position (e.g., H-1B status).

ACM is an equal opportunity employer that celebrates diversity and is committed to creating an inclusive environment for all employees. ACM does not discriminate on the basis of race, religion, color, sex, gender identity, sexual orientation, age, disability, national origin, veteran status or any other basis covered by appropriate law. All employment is decided on the basis of qualifications, merit, and business need.