# American Center for Mobility

## Job Description

**Job title:** Smart Mobility Project Engineer  
**Location:** Willow Run, Ypsilanti, MI  
**Reports to:** 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.

ACM is seeking a project engineer to support new initiatives in our EV Charging Basecamp as part of our safe, secure, and sustainable transportation efforts.

The American Center for Mobility (ACM) is establishing an EV Charging & Interoperability Testbed (a.k.a “EV Charging Basecamp”) designed to address critical needs in EV charging interoperability testing and collaboration. ACM is moving forward with a phased development of this EV charging & interoperability test bed to work with OEMs, EVSEs and CPOs to improve the consumer and fleet EV charging experience. ACM plans to facilitate access at their facility to a multitude of different electrical vehicle charger types from various EVSE manufacturers to original equipment automobile manufacturers and others involved in EV research and development for collaboration, testing and development.

The project engineer will support engineering, implementation, and operation of the test bed through its phased development. The position requires supporting engineering deliverables through collaboration with other engineering teams, EVSE, OEM, CPO and utility companies to ensure successful integration of components, design, development, testing, and reporting of EV charging interoperability including ensuring “handshake,” charging, data exchange and speed of test feedback. Managing project schedules, identifying potential risks, and effectively communicating them to all stakeholders are also part of the responsibilities of the project engineer.

This is an ideal job for a hands-on engineer with diverse interest and experience. Given ACM’s broader focus on safe, secure and sustainable mobility technologies, this position may allow exposure and potential opportunities to support efforts in ADAS, AV, C-V2X, CAV’s, cybersecurity and clean hydrogen.

## Project Engineer Responsibilities:

Specifically related to **EV Charging test bed**, the project engineer will support:

- **Engineering requirements**
  - Understand SAE, ISO and other relevant standards such as ISO-15118, DIN 70121, OCPP, J1772, CCS, and J3400.
  - Develop interoperability technical requirements and develop test cases for US specific system/feature implementation.
  - Ensure all system requirements are met through testing activities such as interface, integration, functional, performance, interoperability and security testing as needed.
  - Perform charging interoperability testing in lab & field settings.
  - Update Vehicles/Charging Stations with Hardware and/or Software and perform tests to ensure successful updates.
  - Ensure Charging System (components and software) operation by monitoring logs and
communications between units.
  - Document test results. Collect, analyze, and provide test reports to clients.
  - Support requirements development and phased buildout of EV testing capabilities.
  - Support customer proposal development for EV charging initiatives

- Collaborate with industry across CPOs, EVSE Manufacturers, & OEMs. Work with EVSEs and CPOs to expand available charging infrastructure requirements, and integration of new charging infrastructure into the test bed including high power charging and vehicle to grid systems.
- Collaborate with project teams on system functionality & maintain targets & testing/validation milestones.
- Maintain current knowledge of industry trends, standards, and technologies. Participate in charging interoperability testing events, industry association and/or Standardization committee and technical work groups.

Skills and Qualifications:
- Bachelor’s degree in engineering, Advanced engineering degree preferred.
- Candidates must be experienced in EV Charging Systems.
- 3-5 years of related Technical and Project management experience.
- Proven track record in design, installation, and project management, with a focus on EV infrastructure.
- Additional experience with ADAS, AV, CAV, V2X, cybersecurity, and hydrogen a plus.
- Experience working on Federally funded grant projects (experience with U.S. DOE) a plus.
- Experience working in lean cross-functional teams.
- Strong oral, written and editing communications skills.
- Excellent people skills, with experience collaborating in a multi-disciplinary, diverse, and dynamic team.
- Demonstrated resourcefulness in setting priorities, proposing new ways of creating efficiencies, and guiding investment in people and system.
- Flexible and a self-starter; able to manage multiple concurrent projects while also being highly detail-oriented with an attention to quality.

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.