



Senior Test Engineer / Technician (Hands-on Role)

Engines, Gensets & micro-CHP Systems

Enginuity Power Systems (EPS) is a distributed power generation and engine R&D company that is poised to fundamentally transform the way energy is produced. Started in 2015, EPS is growing fast, and is currently seeking a seasoned and multi-talented Sr. Test Engineer / Technician with a hands-on background in engine testing and a strong interest in electrical power generation (gen-sets) and thermal energy storage systems development (collectively known as micro-Combined Heat & Power). The Sr. Test Engineer/Technician will be significant hands-on position in the engineering team. The position will require familiarity with installation of engines (line & level), equipment (thermal storage devices), and electrical systems into a test cell, setup of the test instrumentation (pressure transducers, thermocouples, flow meters) as well as test parameter configuration of the dyno data acquisition system (Dyno Test software) and high-speed data DAQ setup (A&D Phoenix CAS (or AVL Concerto similar type software). The test engineer/technician will be responsible for the operation of test cell and engine & m-CHP testing and work with EPS's capable R&D engineering team. At EPS your hard work and talent will be appreciated, and you will have a direct impact on the product and ultimately the success of the company. Enginuity: become your own utility.

DUTIES & RESPONSIBILITIES

- Working with R&D Engineers to plan and setup tests to meet desired objectives for design progress. Develop test plans, conduct the testing, and test script and will have the ability to setup parameters in the DAQ, as well as input and check both calculations entered in the test cell DAQ, and in the recorded data set to check for completeness.
- Ensuring data quality by making sure all sensors are up to date on calibration, inputting correct sensor calibration into test cell DAQ, confirming test calculations are correct, performing daily checks.
- Incorporating modifications to new and existing test equipment and systems to better facilitate test operations and data quality.
- Maintaining test cell equipment, overall cleanliness, and orderliness in the test cell
- Participating in test data review meetings, providing insights, data plotting and test reports to contribute to the development process of EPS product designs.
- As a key test individual with hands-on the parts, will participate in design reviews and freely offer design improvement suggestions to Engineering R&D Team

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- Capable of handling multiple tasks and priorities to meet target dates for short- and long-term project objectives.
- Perform other duties as needed.

SKILLS & QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential function satisfactorily. The requirements listed below are representative of knowledge, skills, and/or abilities required.

- Educational Qualification: High School
- Experience: At least 6 years in IC engine testing, test cell operation
- Familiarity with the operation of engine dynamometers (water brakes, EC dynos and AC Dynos, test cell DAQ (low speed and high speed) and emissions equipment (Horiba, California Analytics) is necessary.
- Ability to work effectively with other in a cross functional organization.
- Ability to work under pressure and meet tight deadlines.
- Strong verbal and written communication skills.
- Effective interpersonal skills.
- Bonus skills desired:
 - familiarity with building electro-mechanical actuation devices, ie. PWM or solenoid valve control devices and small electrical (DC, & AC circuits).
 - metal fabrication (cutting, welding small structures, brackets) and machining skills (mill and lathe work).
 - Experience developing engines for motorsports a plus.

Demonstrated Proficiencies/Skills/Abilities:

- Technical skills: provides accurate, neat, and thorough work; pursues training and professional development; and strives to continuously build knowledge & skills and share expertise with others.
- Continuous Improvement: Generates and uses creative ideas to improve processes and services; adapts to change, works in an organized manner, uses time efficiently; and displays a positive outlook.
- Dependability/Initiative: Assumes ownership of actions; follows instructions, offers ideas, and follows through on commitments; volunteers readily and offers to help and assist when work is complete; and commits to additional hours when necessary.

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- **Organizational Support:** Supports organizational goals, objectives, & values; adheres to all company policies & procedures; observes safety & security procedures.
- **Attendance:** Punctual; observes appropriate break and meal periods; acceptable attendance record.
- Must be able to demonstrate the ability to read, write and speak the English language.
- Ability to communicate technical knowledge in a clear and understandable manner.
- Ability to work both independently and within a cross-functional team.
- Ability to efficiently learn new skills and manage multiple tasks.
- Proficient with Microsoft Office (Outlook, Excel, PowerPoint, Word)

Competencies

To perform the job successfully, an individual should demonstrate the following competencies:

- **Manages Complexity:** Makes sense of complex, high quantity, and sometimes, contradictory information to effectively solve problems.
- **Action Oriented:** Engenuity is a fast-paced, results driven company. Applicant will need to take on new opportunities and tough challenges with a sense of urgency, high energy, and enthusiasm.
- **Resourcefulness:** Secures and deploys resources effectively and efficiently.
- **Collaborates:** Builds partnerships and works collaboratively with others to meet shared objectives.
- **Situational Adaptability:** Adapts approach and demeanor in real time to match shifting demands of different situations.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this position. Duties, responsibilities, and activities may change at any time with or without notice. Work beyond 40 hours per week may be required.

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This opportunity is in the Metro Detroit Michigan area.

Enginuity is dedicated to a drug free work environment promoting equal employment opportunity. Qualified applicants will receive consideration for employment without regard to race, sex, national origin, color, age, disability, religion, pregnancy, veteran status, marital and family status, sexual orientation, receipt of public assistance, genetic information or any other characteristic protected by applicable law.