

Job Description

Title: Engineer I

Reports to: Chief Technology Officer

Background:

44 Energy Technologies® is in the business of providing consulting services, advisory services, investments to other business entities and ventures, as well other business operations. 44 Energy Technologies specializes in vehicle aftertreatment and advanced powertrain technologies.

44 Energy manages a wide variety of consulting projects ranging from emissions test and regulatory certification work to powertrain, CO2, toxic emissions, and fleet management studies. 44 Energy also manages a robust expert witness practice.

Currently, 44 Energy has a significant contract requiring extensive emissions testing of passenger car and medium duty trucks using portable emission measurement systems (PEMS) and chassis dynamometer studies.

44 Energy/Red Fox is managed by industry veterans with significant engineering and business development expertise. A qualified candidate will enjoy a fast-paced environment that will develop skills in practical, hand's on engineering, advanced troubleshooting and problem solving, project and personnel management. Over the long term, the position offers the opportunity to move into an engineering management position or possibly business development and engineering for the consulting business.

The overall goals of the position include:

- Generate and implement test plans for vehicle testing. Manage daily vehicle testing activity and report back to CTO.
- Work up to a level capable of managing entire projects and possibly develop new business.
- Learn about technical details of emission control systems and then be able to use critical thinking to answer advanced emission control system questions and setup appropriate experiments

General Job Duties

- Perform background technology and vehicle research to help qualify vehicles for testing
- Help acquire and check in vehicles for testing
- Set up vehicles for testing and perform in-field emissions testing according to test plan
 - o This program will require extensive travel around California

- Help process and assemble data into reports and make recommendations for next steps
- Maintain and calibrate test equipment
- Study emission control systems and perform background research to help understand principles of operation for various emission control systems
- Help develop new vehicle testing techniques
- Work cooperatively with other engineers to manage individual vehicle testing as well as overall test program
 - Use project management skills to help deploy resources effectively and maximize test throughput/up-time

Qualifications/Experience

- Bachelor's degree in relevant engineering field from top tier university, mechanical or chemical engineering preferred
- Ability to run and maintain advanced measurement and test equipment
- Hand's on engineering experience with automation systems, test bench construction
- Hand's on experience setting up data acquisition and hardware control systems
- Ability to perform advanced engineering analysis of complex datasets and assemble analysis into sophisticated report
- Fluency in at least 1 programming language (Matlab, LabVIEW, or equivalent)
- Fluency in Excel, Word, and Power Point

Salary and Benefits:

Salary TBD. Company sponsored health benefits. 401(k) with employer matching. Paid vacation and holidays.