

# Engine Performance Calibration Engineer

## Why ClearFlame

Diesel engines are critical to world economies and quality of life. However, they are currently coupled to dirty diesel emissions. At ClearFlame Engine Technologies, we are breaking the bond between the diesel engine and diesel fuel, clearing the path to gigaton scale emissions reduction for hard-to-electrify applications, including heavy-duty trucking, power generation, and other off-highway markets.

Easily integrated into existing engines and new production, ClearFlame maintains the same rugged performance and practicality at a much lower cost than current alternatives, offering a rapid pathway to decarbonizing diesel-dominated sectors worldwide. By allowing these engines to keep fulfilling their vital functions—but replacing diesel with plant-based, low-carbon liquid fuels—ClearFlame simultaneously addresses their climate impact, as well as the energy equity and environmental justice issues that disproportionately affect underrepresented populations globally.

We are on a mission to free global economies from a need for petroleum-based fuels in heavy-duty applications. We have big ambitions, but we can't do it alone. We need talented, passionate individuals to help make our vision a reality. In return, we provide comprehensive benefits and are committed to providing a positive team culture—supporting our team relentlessly and focusing on creating personal successes as well as organizational ones.

## About the Position

### Summary

In this role applicants will be responsible for developing and optimizing the calibration of heavy-duty engines and powertrain to meet performance targets. Experience working in a test cell and in vehicle is desired. Candidates should be familiar with and experienced in troubleshooting control systems, writing and executing test requests. Comfortable working in a fast-paced environment and able to communicate well with others.

### Essential Duties and Responsibilities

- Calibration of engine control (EFI/OBD)
- Complete engine calibration in accordance with procedures to meet regulations and other performance targets (emission, fuel economy, power, drivability and OBD)
- Prepare and manage calibration and resource schedule to meet development deadlines

- Test preparation, data collection, data analysis, and technical report creation on a regular basis
- Build successful relationship with test cell technician group
- Conduct vehicle testing and development under extreme environmental conditions (hot, cold, high altitude)
- Taking part in one of many engine calibration tasks within the team, all with the goal of having optimal fuel economy and performance within the defined constraints.
- Design platform for processes related to ECM calibrations like speedometer/ odometer, fuel measurer and other diagnostics.
- Taking initiative to constantly improve tools and processes
- Documentation of test results, tool usage and possible improvements
- Collaboration in teams to support several different projects

### Education and Experience Requirements

- A Bachelor's Degree (or higher) in Mechanical Engineering, Automotive Technology or equivalent
- Engine testing experience, preferably on heavy duty diesel engines, including experience in data acquisition, data analytics and knowledge of ATI/Inca (or comparable calibration tools)
- 2 plus years' experience in heavy duty truck engine calibration
- Experience in combustion engine calibration, compression ignition preferred
- Thorough understanding of internal combustion engine theory/practice
- Product development experience and understanding of industry standards
- Proficiency in MS Office
- Experience investigating technical issues and creating effective technical solutions

### Preferred Skills and Experience

- Master's Degree, PHD or Specialist Experience
- Matlab & Simulink (modeling and scripting)
- J1939 and OBD
- CFR emissions test cycles (FTP, Off Highway Cycles)
- Team player that takes initiative, works well independently and with others
- Excellent communication skills

### Physical Requirements

- Prolonged periods of sitting at a desk and working on a computer
- Must be able to lift 25 lb. unassisted at times
- Travel up to 25% per month
- The position location is in a lab facility in Columbus, IN



You can send a cover letter and resume to [HR@clearflameengines.com](mailto:HR@clearflameengines.com)

**Equal Opportunity Employer:**

ClearFlame is an Equal Opportunity Employer. Employment decisions are made without regard to race, color, religion, national origin, gender, sexual orientation, gender identity, age, physical or mental disability, genetic factors, military/veteran status or other characteristics protected by law.