



## Job Description – Electrical Engineering Intern

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Motiv Power Systems ([www.motivps.com](http://www.motivps.com)) is a fast-growing green tech company based in Foster City, CA. We provide next-generation power management electronics and software for heavy-duty electric trucks. Motiv's modular, plug-and-play electric Powertrain Control System (ePCS) enables existing vehicle builders to create all-electric versions of existing vehicle types ranging from school buses to garbage trucks.

We are looking for an Electrical Engineering Intern for the summer of 2015. In this position, your primary responsibility will be to prototype, design, and test new and existing parts of Motiv's core ePCS product with the Motiv electrical engineering team. Previous interns have theorized, simulated, prototyped and tested new circuits on Motiv's upcoming circuit boards and designed and implemented automated tests for manufacturing, and written software to expedite system validation and vehicle bringup. Be prepared for technically challenging problems in a fast-paced work environment, not fetching coffee. We have high expectations of every employee and our interns are no exception.

### Responsibilities may include:

- Designing, simulating, and prototyping analog and digital circuits for new PCBs
- Building and operating automated lab test setups to validate and test new and existing power electronics and control modules
- Writing and debugging software to automate component- and vehicle-level processes

### Requirements:

- Current enrollment in BS/MS/Ph.D. in Electrical Engineering or a related field
- Proficiency with electrical test equipment, including oscilloscopes and power supplies
- Experience debugging analog circuits and real-time embedded code
- Excellent communication skills and excellence at working with a multidisciplinary team

### An ideal candidate will have the following additional qualifications:

- Experience working with high voltage (1 kV+) and high current (200 A+)
- Python and/or C programming experience
- Soldering and circuit prototyping experience

You will be an active contributor to our team, and your enthusiasm, creativity, and attention to detail are critical to your success. Motiv is a growing company with many opportunities for our employees to make contributions outside of their field.

This paid internship is based in Foster City, CA. Start and end dates are based on your academic calendar (applications for other academic terms are encouraged) and Motiv's needs, but the internship length is expected to be at least 10 consecutive weeks. Sorry, we are not able to support students without American work or student visas at this time. Applications will be reviewed as they are received.

To apply, please email your resume and cover letter to [jobsw@motivps.com](mailto:jobsw@motivps.com)