

At **Honda Performance Development** in Santa Clarita, CA, we are looking to fill one **internship Data Analysis Engineer position**, starting from November 2017. Duration of internship should be no less than 3 months.

Application are expected from talented recent graduates and final year Master students, with some experience in using basic commercial data analysis and statistical software tools.

About Internship

Car data collected at the racing track, during dynamic conditions of racing car driving on the circuit, is notoriously noisy and difficult to analyze with statistically relevant confidence. This data can take the form of measured aerodynamic loads, surface pressure, components temperature, etc.

The goals of this internship are the following:

- Using basic statistical methods, such as sample statistic, confidence interval, hypothesis testing, ANOVA, etc. to determine objective performance level of racing car on the track.
- Establish the methods necessary to distinguish between 'true' and 'apparent' correlation.
- Quantify influences/uncertainties that cannot be removed or controlled, such as tire wear, track surface quality, weather and track conditions.

About HPD

Honda Performance Development, Inc. (HPD) is Honda's racing company within North America and is a wholly owned subsidiary of American Honda Motor Co., Inc. Founded in 1993, HPD is the technical operations center for Honda's high-performance racing programs. HPD operates out of Santa Clarita, California. HPD is currently actively involved in two top-level national categories (IndyCar and IMSA), and multiple other racing categories.

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