

Ford Motor Company in Dearborn, Michigan, is hiring a 2019 Research and Advanced Engineering summer intern to assist with Continuous Integration and Test Automation. The intern should have programming experience, an interest in process improvements and a desire to improve software quality.

Measurable Objectives

- Convert existing English Language requirements and test methods to scripted, repeatable validation tests with documentation embedded for reuse and traceability.
- Contribute to the architecture design for documenting and storing repeatable tests.
- Develop scripts to automatically run existing tests at regular intervals on both a local laptop and a continuous integration environment
- Generate quality test reports

Expected Qualifications

- Pursuing Bachelor's, Master's Degree or PhD. in Electrical, Mechanical or Aerospace Engineering or Computer Science.
- Undergraduate student must be within 1 year of graduation
- Student must have a 3.0 GPA or higher
- Programming experience in Matlab m-script, C, C++, Java and/or Python required
- Knowledge of git for version control is a strength
- Must demonstrate initiative, resilience, a strong work ethic and a desire for continuous learning

Expected Major Contributions

- Expand the test database available for Ford Research & Advanced engineers in the area of powertrain electrification
- Execute tests and document results for review by controls experts
- Enable future process improvements by piloting continuous integration and test automation for a research project
- Give a presentation to senior management, detailing contributions and lessons learned

Expected Benefits to Intern

- Apply programming and analytical skills to real-world problems
- Work with a team of experienced engineers to deliver meaningful contributions to test automation
- Experience the office environment prior to graduation

Employment Eligibility Requirement

Candidates for this position with Ford Motor Company must be legally authorized to work in the United States (students with an F-1 Visa with proper work authorization are eligible). Verification of employment eligibility will be required at the time of hire. Visa sponsorship is not available for this position.

Qualified applicants should send resumes directly to the hiring manager, Peggy Caveney, mcavene1@Ford.com, no later than February 10, 2019.