

Transportation Research Center, Inc. (East Liberty, OH) – Test Engineer II (Control)

Job Duties: Own definition of system-level validation strategy by independently interpreting systems engineering requirements, safety goals, and regulatory constraints to establish test objectives, acceptance criteria, and coverage models for control systems; define system level validation criteria and approve test result acceptability for safety critical control systems in order to support advanced validation; serve as a technical contributor and owner for advanced testing capabilities and automation solutions; interpret systems engineering requirements to independently design and execute test and verification activities; identify missing or untestable requirements, design gaps, and incomplete implementations across complex systems; debug and resolve complex test-related failures; lead or strongly contribute to root cause analysis; communicate test plans, proposals, non-conformances, and project status to internal and external stakeholders; lead the design, development, and deployment innovative, safety-focused testing tools and methodologies; develop and implement automation workflows, testing tools, and software pipelines to improve efficiency and accuracy; communicate detailed technical plans, results, and risks across cross-functional and customer-facing teams; design and enforce safety-focused testing solutions, particularly for Autonomous Vehicle systems; engage in end-to-end vehicle sensing, perception, control system testing; train and mentor new hires; provide technical leadership for test plan creation and new tool documentation; and timely delivery of testing activities, meeting quality compliances and alignment with project goals.

Minimum Requirements: Bachelor's degree in engineering or closely related field, plus 3 years' experience in developing and implementing critical software automation workflows and testing tools using Python coding, machine learning, test scripting, software optimization, and SQL scripting.

For consideration, applicants should email resume and cover letter to rollisonm@trcpg.com