



Position Title:	Part Design, Test and Inspection
Dates and Times Required:	Dates and times are flexible as agreed upon by the Elgin Sweeper staff and the student. STEM internship assignments will begin across the community in June with all work completed by July 1, 2022. Elgin Sweeper is requesting interns for one week at a time with start dates of June 6th, 13th, 20th and 27th with all internships completed by July 1st. The company will offer up to two internships with no more than one student assigned per week.
Time Commitment:	Total of 40 Hours
Location:	1300 West Bartlett Road, Elgin, IL 60120
Description:	<p>Internship experience description includes:</p> <p>Introduction to the design process: Intern will develop a new part or make a revision to an existing part using the company's computer-aided design (CAD) software. Intern will develop an Engineering Change Notice to document the new/ revised part and understand the process of communication and documentation from the engineering department to the production floor.</p> <p>Instrumentation, data collection and test: Intern will work with lab engineers and technicians to utilize instrumentation, data collection and analysis in a test environment.</p> <p>Introduction to a Coordinate Measuring Machine (CMM) and Parts Inspection: Intern will work with the Quality department to observe CMM processes and parts inspection to include data review for necessary specification requirements.</p>
Requirements:	<p>Eligible applicants will:</p> <ul style="list-style-type: none"> ● Be a registered U-46 student for 2022-23 enrolled in Bartlett High School's STEM Academy with preference given to incoming seniors. ● Have introductory CAD experience. ● Desire to learn more about the role of engineering in a manufacturing environment related to the automotive industry. ● Exhibit strong inquiry skills, attention to detail, and a quality mindset.
Application Process:	<p>Cover letter and resume are required highlighting the student's interest in this assignment and the academic courses that qualify the student for this position, as well as any job experience and volunteer work history. Cover letter and resume should be submitted to the Bartlett High School STEM Academy staff for review and consideration. Position will require an interview with the company and may be offered to one or more STEM Academy students.</p>

