



ENGINEERINGCONNECT IDEAS FOR PROJECT-BASED INTERNSHIPS

When thinking about offering an internship opportunity to high school or higher education students, focusing more on a project or two can be rewarding for both the employer and intern.

If you already host undergraduate engineering interns, consider pairing the high school student with a college intern. This can give the college student valuable mentoring experience. Below are some projects to consider:

Case Study: Compiling information from a recent project. Through this activity, students can learn to communicate scientific work, culminating in the creation and presentation of a Powerpoint presentation to leaders.

Market Research: Contributing to market research through compiling survey and quantitative data, polling, phone interviews, basic financial analysis, and researching the web for relevant studies and sources of information.

Computer-Aided Drafting: Assisting with developing 3D models and/or 2D drawings of physical components. Students are currently using AutoCAD or Inventor in their classes.

Architectural Design: Working with your team to help develop basic architectural designs and participating in 3D modeling. (Or having students create a sample design.) Students will use the design cycle. Architecture students are using REVIT in their classes.

Project Coordinator and Administrative Support: Taking notes, updating the project plan, managing the project documents, scheduling, follow up; standardized reporting; documentation management.

Quality Control Study: Inspecting work in progress and finished products against documented quality plan requirements and decide if product meets quality specifications. Documenting and maintaining quality records in hard copy and electronic formats. Using software tools and hand inspection tools, including micrometers, calipers, scales, etc.

Data Stewardship and Analytics Support: Entering data into company database; tagging data appropriately; scrubbing data to improve quality; reporting, analysis.

Product Testing: Actively participate in the testing of various vendor products.

Mechanical and Electrical Design and Prototyping: Supporting mechanical and electrical design, prototyping, and automation. Students will use the design cycle.