

Job Title: Engineering Intern – CNC Grinding Industry

About Us:

Campbell Grinder Company is a leader in precision engineering and advanced CNC grinding solutions, specializing in delivering high-quality machines and innovative technology to our clients in the aerospace, defense, and machinery industries. We are seeking a motivated and hands-on Design Engineering Intern to join our engineering team. This internship provides students with real-world exposure to custom machine design, manufacturing processes, and collaborative engineering within a highly technical CNC environment.

Position Description:

The Engineering Intern will support the engineering team in the design and development of precision grinding machines. This role offers the opportunity to gain practical experience in 3D CAD modeling, drafting, engineering documentation, prototyping, and cross-functional collaboration. The intern will work closely with experienced engineers and contribute to active machine build projects while developing technical and professional skills in a manufacturing environment.

Essential Job Duties and Responsibilities:

- Support creation and revision of detailed part drawings, assembly drawings, and bills of materials (BOMs).
- Help maintain engineering documentation and drawing standards.
- Utilize SolidWorks and AutoCAD to create and modify 3D models and 2D drawings.
- Learn and apply company drafting standards and design practices.
- Assist with basic design updates and engineering change requests.
- Work with Mechanical, Electrical, and Applications Engineering teams on active machine projects.
- Participate in design reviews and team meetings.
- Communicate effectively with manufacturing and assembly personnel to support machine builds.
- Support troubleshooting and documentation of design improvements.
- Observe and learn how engineering concepts are applied on the shop floor.
- Contribute ideas to improve product quality, manufacturability, and efficiency.
- Support organization and improvement of engineering files, templates, and processes.
- Perform other related duties and projects as assigned.

Knowledge & Necessary Skills Required:

- Basic understanding of mechanical engineering principles and machine design.
- Familiarity with SolidWorks or other 3D CAD software preferred.
- Exposure to AutoCAD or technical drafting concepts is a plus.
- Strong attention to detail and willingness to learn.
- Good communication and teamwork skills.
- Ability to manage multiple assignments in a fast-paced environment.
- Proficiency with Microsoft Office applications.



Education & Qualifications Required:

- Currently pursuing a Bachelor's degree in Mechanical Engineering, Manufacturing Engineering, or a related technical field.
- Sophomore, Junior, or Senior standing preferred.
- Interest in machine design, automation, CNC equipment, or manufacturing engineering strongly preferred.

What Interns Will Gain:

- Hands-on experience in custom machine design and manufacturing.
- Exposure to real-world engineering projects from concept through assembly.
- Mentorship from experienced engineering professionals.
- Opportunity to work in a collaborative, team-oriented environment.
- Practical understanding of CNC grinding technology and industrial equipment design.

