

CUTTING EDGE TECHNOLOGIES, LLC

Job Description Form

JOB TITLE: **CAD Designer / Planner**
DEPARTMENT: **Planning, Reports to Planning Manager**
EFFECTIVE DATE: **May 5, 2022**

Job Description:

CAD Designers use computer aided design software such as SolidWorks or Catia to generate 3D models of parts, fixtures, tools, etc. These models can be created from customer supplied drawings, reverse engineering techniques and new design practices.

Responsibilities:

- Review customer supplied engineering and BOM to determine all manufacturing requirements
- Work with CNC and CMM Programmers to design holding fixtures as needed for manufacturing and inspection
- Generate effective fixtures and processes to optimize rigidity, accuracy, and machine and operator safety
- Create detailed BOMs or materials lists to communicate material and hardware requirements to customers
- Communicate with customers on manufacturing processes, operations, and process requirements


CAD Designers report to the Planning Manager. They use various CAD/CAM software programs such as SolidWorks or Catia to generate models, tool designs and BOMs for parts.

Knowledge and Skill Requirements:

- Proficient reading, writing and arithmetic skills including geometry and trigonometry
- Proficient in general Office programs including Excel, Word, Outlook, etc.
- Proficient in SolidWorks, Catia or other CAD/CAM systems used by CET
- In depth knowledge of engineering bills of materials and manufacturing processes
- Thorough understanding of blueprint reading and GD&T interpretation
- Strong written and verbal communications skills with coworkers and customers through conversations, e-mail, or written work instructions

The working conditions are generally normal for an office environment. Work will occasionally require travelling on-site to a customer's location. Visiting a customer's manufacturing environment requires the use of certain specific safety equipment which may include, but not be limited to, eye safety glasses and hearing protection.

Approvals:

Management: 

Date: 5/5/2022