



Title: Mechanical Designer (Miami)

Description: Job Title: Mechanical Designer

Reports To: Director, Mechanical Engineering

SUMMARY

Develops detailed design drawings and related specifications of mechanical equipment by performing the following duties.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

Analyzes engineering sketches, specifications, and related data and drawings to determine design factors such as size, shape, and arrangement of parts.

Sketches rough layout of machine and computes angles, weights, surface areas, dimensions, radii, clearances, tolerances, leverages, and location of holes.

Computes magnitude, direction, and point of application of tension, compression, and bending forces, and develops geometric shape of machine parts to accommodate operating loads.

Drafts detailed multiview drawings of machine and subassemblies, including specifications for gear ratios, bearing loads, and direction of moving parts.

Compiles and analyzes test data to determine effect of machine design on various factors such as temperature, pressures, speed, horsepower, and fuel consumption.

Modifies machine design to correct operating deficiencies or to reduce production problems.

Measures machine and parts during production to ensure compliance with design specifications.

Uses computer assisted design/drafting equipment and software to develop designs.

SUPERVISORY RESPONSIBILITIES

QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

LANGUAGE SKILLS Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public.

Requirements/ EDUCATION and/or EXPERIENCE

Benefits: Associate's degree from four-year college or university.

2 - 5 years experience in healthcare, higher education, commercial, or institutional projects.