



**Title:** Mechanical Engineer (Miami)

**Description:** Job Title: Mechanical Engineer

Reports To: Director of Operations, Miami Office

### **SUMMARY**

Researches, plans, and handles mechanical and HVAC conceptual design and communications of such design to clientele, while directing mechanical department personnel in project completion.

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

Researches and analyzes data such as customer design proposal, specifications, and manuals to determine feasibility of design or application.

Designs products or systems such as instruments, controls, robots, engines, machines, and mechanical, thermal, hydraulic, or heat transfer systems.

Plans and directs engineering personnel in fabrication of test control apparatus and equipment, and development of methods and procedures for testing products or systems.

Directs and coordinates fabrication and installation activities to ensure products and systems conform to engineering design and customer specifications.

Coordinates operation, maintenance, and repair activities to obtain optimum utilization of machines and equipment.

Designs products and systems to interface machines, hardware, and software.

Evaluates field installations and recommends design modifications to eliminate machine or system malfunctions.

Uses computer assisted engineering and design software and equipment to perform engineering tasks.

Maintain current quality control procedures commensurate with the company standards and policies.

Function as Sr. Mechanical Engineer and/or Project Manager with respect to lead project engineering responsibilities as assigned by Department supervisor. Assist the Department Manager in the promotion of company services with regard to project interviews, proposal and fee development as well as general promotion of the entire company.

### **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.

## **MATHEMATICAL SKILLS**

Ability to apply advanced mathematical concepts such as exponents, logarithms, quadratic equations, and permutations. Ability to apply mathematical operations to such tasks as frequency distribution, determination of test reliability and validity, analysis of variance, correlation techniques, sampling theory, and factor analysis.

## **REASONING ABILITY**

Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

## **Requirements/ EDUCATION and/or EXPERIENCE**

### **Benefits:**

Bachelor of Science degree in Mechanical Engineering from four-year college or university; as well as 7 to 10 years related experience and/or training; or equivalent combination of education and experience. Computer literate including such software as Microsoft Office - Access, Word, Excel.

## **CERTIFICATES, LICENSES, REGISTRATIONS**

Registered Professional in the state of Florida.