

# Energy Control Technologies

JOB TITLE: Project Engineer  
LOCATION: Des Moines, Iowa

We (Energy Control Technologies, Inc.) are a fast paced, entrepreneurial company that is looking for an energetic employee. Our customers span the Industrial/Manufacturing, Oil and Gas and the Bio-fuels market segments and our products are state of the art in the field. We are looking for an exceptional candidate to join our team and to grow with the company. You will have the opportunity to work on some of the most complex and critical machines that directly affect the operation of production plants across the world.

## JOB DESCRIPTION

- The Project Engineer is expected to perform detailed engineering work that includes –
- reading and understanding project specifications, electrical and mechanical schematics, layout drawings, P&IDs, PFDs and logic and wiring diagrams
  - calculating control system parameters
  - documenting the system and creating drawings and schematics using AutoCAD Electrical and standard MS Office applications
  - design and layout control system panels using sound electrical design principles
  - design logic sequences and write PLC code for a wide variety of applications
  - design and develop HMI applications

The job of Project Engineer includes the following tasks, requirements and qualifications -

## TASKS:

- Communicate with customers concerning their project, schedule and requirements
- Travel to the work site to collect information and to perform commissioning and/or startup
- Generate CAD drawings using AutoCAD Electrical
- Perform engineering calculations using customer data to determine control system parameters

## KNOWLEDGE REQUIREMENTS:

- Knowledge of Rockwell Automation's automation product line especially ControlLogix and CompactLogix along with the ability to develop, edit, modify, troubleshoot and understand processor software developed using the RSLogix 5000 programming system
- Knowledge of Rockwell Automation's Factory Talk View Studio HMI programming system along with the ability to develop, edit, modify, troubleshoot and understand HMI projects
- Ability to work with electrical drawings and understand basic electrical installation practices
- Knowledge of electrical instrument panel design, construction and testing methods
- Knowledge of Siemens' automation product line, particularly the S7 PLCs along with the ability to develop, edit, modify, troubleshoot and understand processor software developed using the Siemens programming system
- Knowledge of Siemens' SIMATIC HMI programming system along with the ability to develop, edit, modify, troubleshoot and understand HMI projects

## EDUCATIONAL QUALIFICATIONS:

- Bachelor's degree in Engineering. Various degrees will be accepted, but preference will be for Mechanical, Chemical, Aerospace, Electrical or similar field of study
- Experience with computer CAD systems and software programming methods

## OTHER REQUIREMENTS:

- 3+ years of work experience in a related job/industry
- Good communication skills
- Positive work attitude and ability to multi-task on several projects
- Self-starter who can work individually or as a part of a team
- Ability to travel world-wide
- Ability to work legally in the United States