



## Position Description

Job Title: **MILLWRIGHT**

Industrial Construction Services and Design, Inc (ICON) is a full service mechanical/electrical contractor with unique custom machine engineering and fabrication capability. Industrial Construction Services and Design, Inc services manufacturers and heavy industrial markets located throughout the US and abroad by providing superior value measured in terms of quality, responsiveness and cost.

**MILLWRIGHT JOB SUMMARY:** ICON applies the tradecraft name "Millwright" to employees with specialized technical expertise and work experience. The combination of technical expertise and work experience is used to categorize Millwrights by Class 1, 2 or 3. ICON's entry level Millwright is designated a Millwright 1 and will be encouraged to build his or her technical expertise and work experience to achieve Millwright 2 and 3 designations. Employee compensation rates are based upon these classification levels in addition to fair market values and other considerations. The following description encompasses all of the tasks that a fully qualified Millwright Class 3 should be able to perform.

Millwrighting work involves installing, maintaining, dismantling and repairing new and existing machinery or equipment and its components such as conveyor systems, pulleys, mechanical clutches, gear boxes, hydraulic and pneumatic control systems. These operation systems are found in a variety of workplace settings such as manufacturing plants, production plants, construction sites and repair shops. Millwrights must be able to read blueprints and schematic drawings to determine work procedures, to construct foundations for and to assemble, dismantle and overhaul machinery and equipment, using hand and power tools and to direct workers engaged in such endeavors. In the course of work, millwrights are required to move, assemble and install machinery and equipment such as shafting, precision bearings, gear boxes, motors, mechanical clutches, conveyors, and tram rails, using hoists, pulleys, dollies, rollers, and trucks. Millwrights are also involved in routine tasks, such as lubrication of machinery, seal replacement, cleaning of parts during an overhaul, adjusting valves and seals, investigating breakdowns and preventative maintenance.

Millwrights must have a good understanding of fluid mechanics (hydraulics and pneumatics), and all of the components involved in these processes, such as valves, cylinders, pumps and compressors. The Millwright position requires working within precise limits or standards of accuracy, at heights without fear; the use of logical step-by-step procedures in work; planning, solving problems and decision-making based on quantifiable information. Millwrights are trained to work with a wide array of precision tools, such as vernier calipers, micrometers, dial indicators, levels, gauge blocks, and optical and laser alignment tooling. Due to the type of work a millwright does and the tools and equipment they use, certain physical requirements must be met. Millwrights must be able to stand, stoop, bend, kneel, climb and work in tiring and uncomfortable positions. The millwright frequently handle, lift, carry and set up parts and equipment that weight up to 50 pounds (23 kg) and occasionally they may lift and carry items that weigh over 50 pounds (23 kg).