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Instrument Maker 13

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NOTE: THE SENTENCE IN PART I DESCRIBING THE PURPOSE OF THE POSITION AND PARTS II AND III IN THEIR ENTIRETY ARE PERMANENT PARTS OF THE LIBRARY AND MAY NOT BE CHANGED OR EDITED IN ANY WAY.

I. INTRODUCTION

This position involves planning and fabricating complex research and prototype instruments made from a variety of materials and used to detect, measure, record, and regulate heat, pressure, speed, vibration, sound, illumination, biomedical phenomena, and other areas of interest to scientific, engineering, (or medical) personnel.

II. MAJOR DUTIES AND RESPONSIBILITIES

Plans, lays out, fabricates, and modifies moderately complex devices and instruments associated with a single broad trade category. Works from blueprints, sketches, oral instructions or other specifications.

III. FACTOR LEVELS

1. Skill and Knowledge - Requires skill/knowledge of more than one specific trade. Knowledge of varied fabrication processes and methods to assure proper design, setup, and materials in the fabrication of instruments requiring precise dimensions and tolerances. Independently plans, lays out, constructs, tests, and assembles scientific instruments utilizing the full range of standard and non-standard equipment and tools. Broad knowledge of related and allied trades, shop algebraic, trigonometric, and geometric formulas and tables.
2. Responsibility - Receives general assignments from supervisor or customer. Instructions are in form of detailed oral descriptions, sketches, drawings, or similar models of objects to be fabricated. Responsible for selection of materials, fabrication procedures, fits, and testing of completed assemblies. Assumes responsibility for complete assignments by coordinating the effort of other workers on large instruments with minimal guidance by supervisor.
3. Physical Effort - Requires standing, walking, stooping, bending, kneeling, reaching, pulling, pushing and climbing up and down ladders or scaffolding; frequently handles objects weighing up to 10 pounds and occasionally handles objects weighing as much as 50 pounds; hoists and hand trucks are available for heavier items.
4. Working Conditions - Frequently works inside, occasionally outside. There is a possibility of cuts, scrapes, bruises, burns, or broken bones and may be exposed to fumes, radiation, or unstable biological conditions. Required to wear protective devices such as aprons, gloves, safety glasses, and hard hat

THIS POSITION IS EXEMPT FROM COVERAGE UNDER THE FLSA.

IV. UNIQUE POSITION REQUIREMENTS

(Last updated: October 28, 1994)

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