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Instrument Maker 14

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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 - Independently plans, lays out, sets up, completes specified tasks utilizing a variety of machine tools, precise measuring devices, and specialized/non-specialized tools & equipment. Works from blueprints, sketches, oral instructions or other specifications. Determines materials, procedures, tools, equipment to be used. Uses shop algebraic, trigonometric, and geometric formulas and tables. Knowledge of variety of manufacturing processes and methods. Skill and broad knowledge of related and allied trades.

FACTOR II: RESPONSIBILITY - Receives general assignments often without detailed instructions. Guidelines consist of sketches, blueprints, and oral instructions. Has full technical and mechanical responsibility for work plan and all work processes. Exercises considerable independent judgement to determine materials, tools, equipment, procedures; and to layout work, setup equipment. Assumes responsibility for complete assignments by coordinating the effort of other workers on large instruments. Supervisor reviews complex or unusual problems and completed work.

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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