

**BOARD OF REGENTS
STATE OF IOWA
REGENT MERIT SYSTEM**

Class Title: ERD Machinist

Class Code: 6301

Pay Grade: 212

GENERAL CLASS DESCRIPTION:

Under general supervision, constructs and repairs research equipment that is not commercially available.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES:

1. Performs skilled work in the construction, fitting, assembling and disassembling of simple and complex research equipment, working from drawings or preliminary sketches, using shop mathematics, charts, tables and hardbook formulae.
2. Dismantles shop machinery and repairs or replaces parts; cleans machinery periodically.
3. Reads and interprets working drawings, sketches and diagrams.
4. Develops and constructs instruments and research apparatus from verbal instructions only, when no prints are available.
5. Performs lead and silver soldering, fusion arc welding, brazing and acetylene burning.
6. Assists in training apprentices as required.

KNOWLEDGE, SKILLS, AND ABILITIES:

1. Ability to communicate orally and in writing.
2. Ability to maintain effective working relationships with others.
3. Knowledge of the principles, methods and techniques used in the trade.
4. Ability to interpret and follow instructions and specifications such as blueprints, manuals, sketches and work orders.
5. Ability to operate safely and care for tools, machines and equipment.

The tasks listed under the heading of Characteristic Duties and Responsibilities are examples of the variety and general nature of duties performed by employees in positions allocated in the class. The list is descriptive only and should be used for no other purpose. It is not intended that any position include every duty listed nor is it intended that related duties cannot be required.

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6. Ability to perform a broad and varied range of assembly tasks with precise attention to detail.
7. Ability to lift or maneuver up to 100 pounds.
8. Knowledge of occupational hazards and safety precautions associated with equipment assembly.

MINIMUM ELIGIBILITY REQUIREMENTS:

Experience sufficient to qualify as a journeyman, with a minimum of four years of actual work at the trade, including apprenticeship or vocational training.

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REVISION EFFECTIVE: October 1, 2009