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## Auburn University Job Description

Job Title: **Tech I, Plant Operations**

Job Family: No Family

Job Code: **ND13**

Grade 31: \$31,300 - \$52,100

FLSA status: Non-exempt

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### Job Summary

Under close supervision, maintains boiler and hot-loop water chemistry and performs routine repairs and preventative maintenance to a variety of district energy chilled water and heating plant equipment.

### Essential Functions

1. Performs preventative maintenance on motors, pumps, boilers, cooling towers, pneumatic and digital controls, valve actuators and operators, and flow meters. Performs seasonal transitions of systems to and from heating and cooling.
2. Performs basic repairs of district energy chilled water and heating plant equipment including: motors, pumps, boilers, cooling towers, pneumatic and digital controls, valve actuators and operators, and flow meters.
3. Maintains boiler (steam and condensate) and secondary hot-loop water chemistry. Assists contracted water treatment specialist with installation and maintenance of primary hot water, chilled water, and condensing water energy plant systems.
4. May be responsible for meeting and maintaining training and certification requirements as outlined by the Auburn University Facilities Management Policy: "Training, Education, and Certification Requirements for Mechanical and Electrical Trades Personnel".
5. May be required to serve in an on-call status and remain work-ready when scheduled for an on-call period or rotation. Work-ready status requires an employee to return to the worksite within forty-five minutes while being physically and mentally unimpaired and fit for duty, able to safely perform all essential job functions with no risk to self, coworkers, students, public, or property.

### Supervisory Responsibility

May be responsible for training, assisting or assigning tasks to others. May provide input to performance reviews of other employees.

*The above essential functions are representative of major duties of positions in this job classification. Specific duties and responsibilities may vary based upon departmental needs. Other duties may be assigned similar to the above consistent with the knowledge, skills and abilities required for the job. Not all of the duties may be assigned to a position.*

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## Auburn University Job Description

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### Minimum Required Education and Experience

	<u>Minimum</u>	<u>Focus of Education/Experience</u>
<b>Education</b>	High School	High School diploma required. Associate's degree or vocational training in Heating, Ventilating, and Air Conditioning systems, refrigeration, building control systems, electrical construction, plumbing, or related field preferred.
<b>Experience (yrs.)</b>	2	Experience in installation, maintenance, repair, and operation of a wide array of common plant system components.

#### **Substitutions allowed for Education:**

Indicated education is required; no substitutions allowed.

#### **Substitutions allowed for Experience:**

Indicated experience is required; no substitutions allowed.

#### **Minimum Required Knowledge**

Knowledge of HVAC and refrigeration theory and principles.

Knowledge of HVAC and refrigeration system operations.

Knowledge and understanding of major HVAC system components (i.e. what they do, how they work, and how to install or replace them).

Knowledge of preventative maintenance practices for district energy systems.

Basic knowledge of pumps, motors, and related system flow characteristics.

Basic knowledge of electrical systems.

Basic knowledge of single phase and three phase electrical systems including wire sizing.

Basic knowledge of water chemistry standards for steam, condensate, chilled water, condensing water, and heating water systems.

Knowledge of workplace safety and safe work practices.

Understanding of industrial safety procedures and practices pertaining to working around operating equipment.

#### **Skills:**

Ability to perform preventative maintenance on district energy equipment such as chiller (evaporator and condenser), water tubes, boiler fire tubes, distribution system pumps and motors, valves, valve actuators, and flow meters.

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## **Auburn University Job Description**

Ability to maintain and troubleshoot district energy system operations:

- Properly maintain set points for automated chilled water system staging.
- Operate system to maintain adequate differential pressure across all plants and buildings.
- Operate system to maintain required temperatures across all plants and buildings.

Ability to assist in the installation, repair, and/or replacement of district energy system components such as pumps, motors, valves, flow meters, variable frequency drives, heat exchangers, and water softeners.

Ability to wire circuits and components.

Ability to read blueprints.

Ability to read electrical and mechanical system drawings.

### **Certification or Licensure Requirements**

Valid Driver's License.

Universal Refrigerant Card or must obtain within the first 90 days of employment.

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### **Physical Requirements/ADA**

Frequent heavy or intense physical requirements, combined with exposure to a number of disagreeable elements, such as heat, cold, noise, dust, dirt, chemicals. Injury may require professional treatment or hospitalization. Constant precautions required.

Routine deadlines; usually sufficient lead time; variance in work volume seasonal and predictable; priorities can be anticipated; some interruptions are present; involves occasional exposure to demands and pressures from persons other than immediate supervisor.

Job frequently requires standing, walking, reaching, climbing or balancing, stooping/kneeling/crouching/crawling, hearing, handling objects with hands, and lifting up to 50 pounds.

Job occasionally requires sitting, talking, and lifting more than 100 pounds.

Date: 7/2/2018

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