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## Auburn University Job Description

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

Job Family: No Family

Job Code: **ND15**

Grade ST15 \$48,100 - \$81,800

FLSA status: Non-exempt

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### Job Summary

Under limited supervision, responsible for performing complex installations, replacements, or repairs to district energy heating and cooling system components.

### Essential Functions

1. Serves as the University's technical expert on district energy system operations, repairs, and maintenance. Plans, schedules, and oversees major district energy system repair projects, such as replacement of system pumps or motors, replacement of cooling tower fans or motors, repair and/or replacement of variable frequency drives, and leading emergency repair efforts.
2. Oversees the repair efforts of less experienced Plant Operation Technician Is and IIs executing complex repairs and maintenance on district energy heating and cooling systems including motors, pumps, boilers, cooling towers, pneumatic and digital controls, valve actuators and operators, and flow meters.
3. Inspects district energy systems and their components (e.g. motors, pumps, boilers, cooling towers, pneumatic and digital controls, valve actuators and operators, and flow meters) for the purpose of evaluating operating status and material condition, identifying necessary repairs, and recommending a proper course of action.
4. Repairs, maintains, and installs complex electrical systems and components within the district energy plants including variable frequency drives, BAS control components, large motors, and pumps. Repairs, maintains, and installs electrical systems and components that involve medium-high voltage (up to 600V), three-phase power, sophisticated controls, large sets of complex equipment (interconnected between energy plants), and campus-wide systems.
5. Oversees and plans assigned work orders using the Facilities Management AIM work order system to prioritize and schedule work to best meet the needs of Auburn University and its customers. Identifies options, develops solutions, and takes action when responding to customer requests.
6. 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".
7. 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.

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*The above essential functions are representative of major duties of positions in this job classification. Specific duties and*

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## **Auburn University Job Description**

*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>	Some college; vocational or Associate's Degree	Heating, Ventilating, and Air Conditioning systems, refrigeration, building control systems, electrical technology, electrical construction, or other related fields. Associate's degree preferred.
<b>Experience (yrs.)</b>	8	Experience in installation, maintenance, repair, and operation of a wide array common plant system components. Must include at least 3 years at the preceding level.

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

When a candidate has the required experience, but lacks the required education, they may normally apply additional relevant experience toward the education requirement, at a rate of two (2) years relevant experience per year of required education.

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

Indicated experience is required; no substitutions allowed.

#### **Minimum Required Knowledge**

Advanced knowledge regarding the installation, maintenance, repair, and proper operation of a wide array of complex district energy systems.

Advanced knowledge regarding a wide array of complex district energy systems components such as chillers, boilers, variable frequency drives, valves, valve actuators, and flow meters.

Advanced knowledge regarding troubleshooting, assessment, and diagnostic techniques for complex district energy heating and cooling systems problems.

Advanced knowledge regarding project management and the planning, scheduling, and overseeing of district energy system repair projects.

Advanced knowledge of HVAC and BAS control systems and the ability to install, repair, and replace control components.

Advanced knowledge of motor or equipment control systems and the ability to install, repair, and replace control components.

Advanced knowledge regarding troubleshooting, assessment, and diagnostic techniques for routine energy plant electric systems problems.

Advanced knowledge regarding the use of building automation systems, such as Johnson Controls Metasys system, to find and troubleshoot issues.

Advanced knowledge of fire alarm and refrigerant alarm systems and how they interact with both district energy plant electrical systems and automated heating and cooling system operations and controls.

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## **Auburn University Job Description**

### **Skills:**

Leadership and supervisory skills, along with the ability to communicate tasks and give direction to subordinates in a clear and concise manner.

Ability to install, repair, and/or replace a wide array of complex district energy system components such as motors, pumps, boilers, chillers, cooling towers, pneumatic and digital controls, valve actuators and operators, variable frequency drives, BAS control components, and flow meters.

Ability to troubleshoot, assess, and diagnose complex district energy heating and cooling systems problems.

Ability to plan, schedule, and oversee district energy system repair projects.

Ability to install, repair, and replace district energy system control components as well as to adjust and modify the sequence of control operations to ensure proper system performance.

Ability to install, repair, and replace digital control components as well as to adjust and modify the sequence of control operations to ensure proper system performance.

Ability to install, repair, and replace pneumatic control components as well as to adjust and modify the sequence of control operations to ensure proper system performance.

Ability to troubleshoot, assess, and diagnose complex energy plant electric systems problems.

Ability to oversee major electrical repair or installation projects and to plan and schedule such projects to ensure successful execution.

Ability to use building automation systems, such as Johnson Controls Metasys system, to find and troubleshoot complex issues.

### **Certification or Licensure Requirements**

Valid Driver's License.

Universal Refrigerant Card.

National Institute for the Uniform Licensing of Power Engineers (NIUPE) 4th Class Power Engineer Certification or approved equivalent per Auburn University Facilities Management Policy: "Training, Education, and Certification Requirements for Mechanical and Electrical Trades Personnel".

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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.

Externally imposed deadlines; set and revised beyond one's control; interruptions influence priorities; difficult to anticipate nature or volume of work with certainty beyond a few days; meeting of deadlines and coordination of unrelated activities are key to position; may involve conflict-resolution or similar

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## **Auburn University Job Description**

interactions involving emotional issues or stress on a regular basis.

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: 1/8/2020

