Environmental Trades Technician III (0866)

**Basic Purpose/Job Function:** To service, inspect, repair, and maintain air conditioning, refrigeration, and heating equipment as necessary in the daily operation of The University of Oklahoma. Responsible for the installation, maintenance, and repair of equipment used in the integration of central computerized building automation systems.

**Examples of Titles Replaced:** Environmental Systems Technician I; Environmental Systems Technician II; Environmental Systems Technician III; Power Plant Mechanic; Shift Leader, Power Plant; Supervisor, Environmental Systems Group

**Typical Functions May Include:**

1. Installing, servicing, and repairing refrigerators, window air conditioners, freezers, ice-making machines, air compressors, vacuum pumps, and water pumps
2. Installing, servicing, and repairing gas fired appliances and related piping such as hot water boilers and forced air furnaces
3. Installing, servicing, and repairing mechanical and electrical equipment on refrigeration and air conditioning equipment up to 200 tons
4. Installing, servicing, and repairing chilled water, heating water, and steam systems
5. Installing, repairing, and maintaining a variety of electronic and pneumatic equipment used to operate the central computerized building automation system
6. Installing and repairing electronic controlled fume hoods and VAV systems
7. Installing and repairing variable frequency drives
8. Installing and repairing controls for water well system and wells for irrigation system
9. Installing and repairing University time clocks
10. Assisting in collecting and providing operational data to the department engineering section
11. Assisting other Physical Plant sections in locating vacuum and glycol leaks
12. Performing air balance and vibration analysis on HVAC systems
13. Inspecting and repairing a wide variety of pneumatic equipment requiring exact calibrations, i.e., pneumatic receiver controllers, pneumatic logic centers, pneumatic actuators, and similar equipment
14. Working from blueprints, piping schematics, and control wiring diagrams
15. Keeping vehicle inventory, orders routine materials, and maintains equipment logs on sight
16. Performing other related duties as assigned
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Risk Management: Uses established safety practices to protect health and safety of personnel and property.

Supervision of Others: Serves as lead mechanic as directed.

Supervision Received: Receives minimal supervision from superior.

Minimum Qualifications:

- **Education:** High School diploma or GED/some Vo Tech
- **Experience:** 60 months
  - **Type:** Electrical, refrigeration, air conditioning, refrigeration pneumatics, or equivalent type using HVAC systems. Full-time vo-tech training in HVAC/refrigeration may be substituted for two years’ experience
- **Skills:** Uses tools or equipment with expertise; reads and interprets complex written or printed materials such as blueprints or building plans; communicates orally and in writing to train others and gives and explains complex instructions; performs recordkeeping operations, making changes to existing records including computerized records; and must be able to perform math computations.
- **Special Requirements:** Climbing ladders and stairs; frequent and repeated bending, stooping, and kneeling; crawling under structures and through tunnels; working with arms extended above head, while lying down, and in extremely disagreeable weather conditions; carrying tools up to and/or in excess of fifty pounds up or down stairs; regular exposure to heavy lifting (minimum seventy-five pounds), extreme temperature changes, and safety hazards; working on rooftops that exceed ten feet; using pipe wrench, hammer, pliers, and assorted mechanical tools; moving furniture and heavy equipment; loading and unloading truck manually and using forklifts; demolishing and removing air conditioning and refrigeration equipment; working with hazardous materials; using visual color discrimination and acuity to read diagrams and gauges, diagnose problems, and ensure safety; and using good eyesight and hearing to prevent safety hazards.
- **Licenses:** Valid Oklahoma Driver’s License; Journeyman’s License
- **Certifications:** Certification for use of refrigerant recovery/recycle equipment.

Minimum requirements may be met by an equivalent combination of education and experience, unless otherwise designated in writing by the department.

Departments are responsible for site-specific job descriptions.