DEFINITION

To monitor, repair and perform preventive maintenance on college irrigation systems, drainage systems and fire hydrants; to design, draft and install irrigation systems and assigned drainage and landscaping projects; and to perform a variety of technical tasks relative to assigned area of responsibility.

SUPERVISION RECEIVED AND EXERCISED

Receives direction from the Supervisor, Grounds Services.

ESSENTIAL AND MARGINAL FUNCTION STATEMENTS

Essential and other important responsibilities and duties may include, but are not limited to, the following:

Essential Functions:

1. Design, draft and install irrigation and drainage systems to maintain and enhance landscaped areas of the college; recognize and repair malfunctioning systems.

2. Develop and implement an irrigation system preventive maintenance plan; evaluate irrigation system performance.

3. Coordinate, supervise and oversee the installation of landscape irrigation, drainage and other related systems.

4. Schedule landscape irrigation cycles to correspond with plant requirements, climatic conditions, sporting events and various special campus activities.

5. Maintain an inventory of irrigation supplies; order irrigation supplies as needed.

6. Operate a variety of equipment to install, troubleshoot and repair complete automated irrigation and drainage systems.

7. Perform necessary adjustments to sprinklers; troubleshoot and repair faulty valves, wiring, water mains, irrigation clocks, fire hydrants and related equipment.

8. Perform a variety of landscaping tasks including but not limited to forming and finishing concrete; preparing soils, planting, pruning and maintaining trees and lawns.
9. Perform inspection and repair of college arboretum and other assigned area systems.

10. Drive a variety of District vehicles safely; keep service vehicles clean and organized.

**Marginal Functions:**

1. Assist in other grounds related tasks including construction, maintenance and emergency procedures as required.

2. Periodically inspect and clean storm drain grates, sumps and pipelines.

3. Perform related duties and responsibilities as required.

**QUALIFICATIONS**

**Knowledge of:**

- Principles and procedures of irrigation and drainage system installation, troubleshooting, repair and maintenance.
- Principles and practices of irrigation system planning and drafting.
- Principles and techniques of irrigation and drainage system design.
- Technical aspects of irrigation and drainage.
- Turf types and soil infiltration rates.
- Modern office procedures, methods and equipment including computers.
- Regulations and applicable laws regarding the use and disposal of various hazardous materials.
- Pertinent Federal, State and local codes, laws and regulations.

**Ability to:**

- Design, draft and install complete automated irrigation and drainage systems.
- Troubleshoot, repair and maintain irrigation and drainage systems.
- Develop and implement an irrigation system preventive maintenance plan.
- Use drafting skills to create irrigation, drainage and other related landscape plans.
- Maintain irrigation systems parts inventory.
- Operate a variety of irrigation and groundskeeping equipment and tools in a safe and effective manner.
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- Maintain accurate records and files.
- Operate office equipment including computers.
- Communicate clearly and concisely, both orally and in writing.
- Establish and maintain effective working relationships with those contacted in the course of work.
- Maintain physical condition appropriate to the performance of assigned duties and responsibilities.
Experience and Training Guidelines
Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Experience:

Three years of increasingly responsible experience in irrigation and drainage systems.

Training:

Equivalent to the completion of the twelfth grade supplemented by course work in irrigation and drainage systems or a related field.

License or Certificate
Possession of, or ability to obtain, an appropriate, valid driver's license.

WORKING CONDITIONS

Environmental Conditions:
Office and field environment; travel from site to site; exposure to computer screens, solvents, moving objects/vehicles, inclement weather conditions; work in or with water; work on slippery or uneven surfaces.

Physical Conditions:
Essential and marginal functions may require maintaining physical condition necessary for walking, standing or sitting for prolonged periods of time; heavy, moderate or light lifting and carrying; kneeling; repeated bending; operating motorized equipment and vehicles.