



GEORGE CAIRO ENGINEERING, INC.

Consulting Civil & Agricultural Engineers
Water Resource Specialists
Land Surveyors

STAFF ENGINEER - MESA ARIZONA

AGRICULTURAL/IRRIGATION ENGINEERING

GCE is a growing Professional Services Firm specializing in Water Resources Engineering, Civil Engineering and Agricultural Engineering serving the agricultural and water resource interest in the Southwestern United States. GCE offers a comprehensive suite of services to the public and private sector in the following areas: Water Resources, Civil and Agricultural Engineering, Land Surveying, and Construction Administration Services.

GCE is considered the firm of choice for agricultural to urban conversion projects, complex hydraulic structures, and irrigation canal design. We have a reputation for quality engineering and the production of superior engineering products. GCE has offices in California and Arizona.

POSITION DESCRIPTION:

The purpose of the Staff Engineer position is to assist GEORGE CAIRO ENGINEERING, INC (GCE) senior staff, and project design managers in the planning, evaluation, hydraulic analysis and design of major canals, hydraulic structures, pipelines design and on- farm distribution systems. The position also provides the opportunity to support urbanization mitigation programs, rehabilitation and maintenance and modernization of irrigation districts and development of Native American irrigation projects. The agricultural/irrigation engineer will support a variety of other projects including water resources projects, wetlands planning and design, water balances, river studies, hydraulic modeling and related studies.

ESSENTIAL FUNCTIONS:

- Prepare conceptual study reports, proposals, design drawings for preliminary, final, and construction levels, specifications, and other contract documents with an emphasis on detail, quality, completeness, and constructability to industry standards.
- Prepare or review for completeness conceptual studies, pre-designs, construction drawings, specifications and other contract documents leading to construction contracts for various projects as assigned.
- Analyzes data such as present and projected cropping patterns and distribution systems, on-farm irrigation systems and conditions unique to farming, which may affect water usage.
- Develop criteria for planning and designing water management facilities used for irrigation distribution systems from the farm level to the irrigation district level.
- Performs engineering appraisal and feasibility studies; prepare plans, specifications, and cost estimates for irrigation conveyance and distribution systems.
- Assist in formulating flood protection measures, including the determination of present and planned capacities of water courses, and routing of flood flows through irrigated areas and along stream channels for the purposes of flood protection.

- Hydraulic modeling of canal systems and hydraulic structures.

Perform other technical duties as assigned.

REQUIRED KNOWLEDGE AND SKILL ABILITY:

Knowledge of engineering principles and practices related to agricultural water, irrigation conveyance, canal modernization, and distribution systems.

- Professional knowledge of Arizona agriculture and irrigation engineering concepts, principles and practices applicable to duties concerned with construction, operation, and maintenance of irrigation facilities and the control, distribution, and management of water.
- Knowledge of and skilled in interpersonal relationships and skilled in oral communications to present information related to work.
- Technical writing abilities to develop and produce high level written reports and engineering documents
- Ability to perform design work associated with construction, operation and maintenance of irrigation facilities
- Ability to establish and maintain effective working relationships with other employees, Irrigation Districts, Community Officials and the general public.
- Ability to perform all physical requirements of the position; agree to maintain a Drug-free workplace.

ACCEPTABLE EXPERIENCE AND TRAINING:

Bachelor of Science degree in Agricultural Engineering, Civil Engineering or closely related field with zero (0) to five (5) years of practical engineering experience.

ADDITIONAL REQUIREMENTS:

Current EIT certification or the ability to obtain within (12) months of employment for the entry level position.

Valid State Driver's License

SUPERVISORY STATUS:

Non-Supervisory for entry level reports to direct supervisor

Supervises junior engineering staff and technicians for 3 to 5 year experience level

SALARY:

The position is a salaried position which pays salary plus overtime. Salary ranges are excellent and competitive with local market conditions and position levels.

BENEFITS:

GCE provides a very competitive overall benefits package which includes full medical, dental and vision insurance for the employee. In addition to paid Holidays and Paid Time Off the firm provides a Retirement Plan, Annual Bonuses, flexible work schedules, support in professional memberships and a continuing education

program.

RESUMES CAN BE MAILED TO:

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