CIVIL ENGINEER (UNREGISTERED)

Posting ID: EM1830954C

Company Website: https://www.mohavecounty.us/ContentPage.aspx?id=128&cid=67&page=1

Company: Mohave County Public Works

Work Location: Kingman, AZ

Position Type: Full-Time

Salary: $51,708.80 - $80,246.40 Annually

College Major(s): Civil Engineering (CEE)

College Level(s): Graduate Student, PhD. Student

OVERVIEW

Mohave County Public Works Department is currently recruiting for a Civil Engineer (Unregistered) for the Engineering Division.

Performs entry level professional work within the Civil Engineer series. Depending on which department is assigned, work is involved in the planning, designing and constructing of roads, traffic/transportation systems, drainage, subdivisions, improvement districts, buildings, utilities, flood control, municipal solid waste landfill and water/waste water, and other projects. This is an Unregistered Civil Engineer performing primarily the same responsibilities as a Registered Civil Engineer. Appointment to this level requires that the incumbent be performing the full range of duties and meet the qualification standards for the class. Incumbent should possess the willingness to obtain certification as a Registered Civil Engineer in the State of Arizona.

Roles and Responsibilities

Essential Job Functions

As Assigned to Public Works:

● Prepares designs and traffic and highway engineering plans in accordance with general engineering principles and practices satisfying Mohave County adopted engineering standards; performs complex engineering analyses and calculations; designs, prepares drawings, specifications, bidding documents, contracts, and cost estimates for road projects; coordinates design and construction surveying.

● Provides design data for and performs analysis using engineering applications including but not limited to Computer-Aided Drafting, pavement management, traffic demand and road = capacity, highway performance monitoring, road infrastructure and traffic control device asset databases, spreadsheets, and Geographic Information Systems (GIS).

● Assists with engineering division review of residential subdivision and commercial project plans and construction drawings during subdivision or site plan review process; ensures compliance with codes and standards.

● Conducts traffic engineering studies to support compliance with adopted standards;
conduits traffic engineering studies to support traffic safety improvement planning and projects.

- Performs pavement designs and evaluates pavement existing conditions; makes engineering recommendations on pavement preservation strategies, priorities, and project programming.
- Provides technical assistance and consults with other departments and outside agencies regarding engineering functions, site development, and transportation.
- Prepares permit applications and supporting technical documents as required by local, state, and federal jurisdictional agencies and necessary to maintain and operate road infrastructure systems inclusive of but not limited to Bureau of Land Management, United States Army Corps of Engineers, Federal Highway Administration and Arizona Department of Transportation.
- Supports Public Works transportation and right-of-way permitting programs.
- Answers technical questions and provides information to the public.
- Performs related duties as required.

SECONDARY JOB FUNCTIONS

- May review work of peers and subordinates for accuracy and completeness.
- May perform standard tests on construction materials such as aggregate, asphalt, concrete, etc.
- May respond to inquiries of the general public, other departments and jurisdictions by phone and in the office or field.
- May assist in the recruitment, selection and hiring process for positions of Engineering Technician and others as requested.
- Performs special assignments as appropriate to assigned area.
- Performs related work as required.

Education and Qualifications

Minimum Qualifications

- A Bachelor's degree in Civil Engineering from a College or University accredited by the Accreditation Board for Engineering and Technology (ABET), Inc.
- An equivalent combination of education, experience, and training which provides the required knowledge, skills and abilities may be considered in meeting the minimum qualifications.

SPECIAL JOB REQUIREMENT

- Possession of an Engineer in Training Certification or evidence of having taken the examination and waiting results.
- Satisfy all education requirements for professional registration by the Technical Board of Registration for the State of Arizona.
- Must possess a valid driver's license for operation of motor vehicles on Arizona roads at the start of employment and maintain said license while employed in this position.
- Must provide acceptable driving history at no cost to the County.

Skills

Knowledge of:

- Federal, state and local regulations, codes and engineering standards pertaining to the design, construction, and operation of Public Works projects and other infrastructure projects
Principles and practices of civil engineering as applied to design, construction, operation and maintenance of roads, traffic/transportation systems, drainage facilities, utilities, Water, and public infrastructure.

Hydrology and hydraulics as applied to drainage facilities.

Land and construction survey systems.

Computer operations including computer aided design and drafting.

Geographic Information Systems development, implementation, and operation.

Building construction methods and practices.

Public Works infrastructure construction and maintenance.

Project schedules and the relationships of stakeholders.

Mohave County Personnel Policies and Procedures, and Department Regulation.

Skill in:

- Operating computer aided design systems and applications and related peripheral equipment.
- Tailoring, analyzing, and using general and engineering computer programs, software, and databases.

Ability to:

- Understand, interpret and apply pertinent federal, state, county, city, and departmental laws, rules, regulations, codes, standards, policies, and procedures encountered in the performance of assignments.
- Apply independent judgment in the analysis of assigned engineering projects and formulate and write recommendations, plans and specifications.
- Compile technical data and calculations and convert them to plans.
- Estimate construction and material costs.
- Plan and organize work to meet daily and periodic objectives.
- Read, interpret, explain, and apply technical materials encountered as a result of work assignments.
- Work independently in completing assigned tasks and in maintaining records and other documentation accurately and legibly.
- Establish and maintain effective working relationships with department staff, vendors, and personnel contacted in the course of business.
- Perform the essential functions of the class with or without a reasonable accommodation.
- Understand and comply with Mohave County Personnel Policies and Procedures, and Department Regulation.

How to Apply

Go to: