



## Alaska Industrial Development and Export

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|---------------------|---------------------------------------|
| <b>PCN (s)</b>      | <b>08-X123, 08-0425</b>               |
| <b>JOB TITLE</b>    | <b>INFRASTRUCTURE ENGINEER</b>        |
| <b>LOCATION</b>     | <b>ANCHORAGE</b>                      |
| <b>RANGE</b>        | <b>23/24/25</b>                       |
| <b>REPORTS TO</b>   | <b>DIRECTOR, OWNED ASSETS 08-X071</b> |
| <b>FLSA EXEMPT</b>  | <b>YES</b>                            |
| <b>REVIEWED BY:</b> | <b>BRYAN CAREY APRIL 2022</b>         |
| <b>APPROVED BY:</b> | <b>CURTIS THAYER APRIL 2022</b>       |

### POSITION PURPOSE:

This position is responsible for assisting in engineering studies, field investigations, and the development of engineering design for the Alaska Energy Authority's owned assets and grant projects under the general guidance of the Director of Owned Assets.

Position will be filled at a Range 23, 24, or 25 depending on experience, desired qualifications and distinguishing characteristics.

### ESSENTIAL FUNCTIONS:

- Reviews and analyzes technical proposals, contracts, operations and management agreements, memoranda of understanding and similar documents for owned assets projects.
- Writes engineer and technical analyses; writes and submits reports required by the Federal Energy Regulatory Commission.
- Manages legal contracts for project development with other parties.
- Collaborates with utilities, communities, Alaska Native groups, government agencies, and other local entities in developing projects with a focus on maximizing energy, local input, resources, and jobs.
- Provides technical and/or engineering subject matter expertise to other Authority staff.
- Supervises project consultants in the design, construction, operation, and management of facilities that are or potentially will be owned/financed by the Authority in accordance with contractual and program requirements.
- Provides advice and technical assistance on matters relating to utility relocations, land acquisition, site control, land surveys, permitting, code compliance, variances, construction issues, start-up and commissioning, warranty and operational issues.
- Initiates and reviews request for proposal packages and solicits for professional architectural/engineering services; typical services solicited include planning, architectural, engineering, cost estimating, environmental, marketing, and project management work.
- Administers professional services contracts through to completion of the projects.
- Develops high-level project cost estimates, budgets, critical path method schedules, and cash flow projections and supervises project consultants responsible for such project planning deliverables.
- Develops and prepares project reporting systems.
- Performs asset management of Authority owned properties.

- Other duties as assigned.

### **PHYSICAL REQUIREMENTS AND POTENTIAL HAZARDS:**

While performing the duties of this job, the employee is frequently required to sit; use hands or fingers; handle or feel; talk and hear. The employee is occasionally required to reach with hands and arms. This position frequently requires reading and communication through speech and writing. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision and the ability to adjust focus.

Position may require travel by small plane, helicopter, or small boats to remote sites. Field trips may require hiking through steep vegetated terrain, crossing streams, or entering confined spaces while collecting data or inspecting.

### **TECHNOLOGY, EQUIPMENT, SYSTEMS, AND TOOLS:**

Will require a strong background in both math and science fields. Computer knowledge is also essential including a solid working ability in Excel and MS Word and Powerpoint. Familiarity with drafting software and schematics will be necessary. Requires basic skills with email and general office equipment.

### **CRITICAL KNOWLEDGE, SKILLS, AND ABILITIES:**

- Knowledge of Alaska energy systems, economics, resources, and laws/regulations guiding energy development/policy in Alaska.
- Ability to manage multiple engineering contractors and tasks simultaneously.
- Experience with remote site work and cold climate engineering.
- Ability to make technically and financially sound project management decisions.
- Experience with Federal Energy Regulatory Commission licensing.
- Ability to review a high volume of engineering reconnaissance, feasibility reports, and final design documents for completeness and accuracy of conclusions/recommendations.
- Ability to perform economic analysis of complex projects.
- Strong understanding and knowledge of environmental issues and impacts that can result from the development of energy facilities; experience recommending changes in technology as required to mitigate detrimental impacts.
- Ability to present to diverse audiences on complex issues.
- Demonstrable knowledge of multiple engineering disciplines (electrical, civil, and mechanical).
- Knowledge of prudent utility practices.
- Ability to travel throughout Alaska as needed.

### **QUALIFICATIONS:**

Bachelor's degree in civil, electrical, or mechanical engineering or related field, and a minimum of 5 years of experience in engineering and project management. Master's degree in a related field may be used as substitute for two years of qualified experience. Licensure as a Registered Professional Engineer in the State of Alaska is preferred. Project Management Professional (PMP) certification or specialty certifications from Construction Specifications Institute (CSI) such as Construction Documents Technology (CDT) or (Certified Construction Contract Administrator) are preferred.

### **SUPERVISION:**

Supervises engineering project consultants.

### **DISTINGUISHING CHARACTERISTICS: (FROM SIMILAR HIGHER OR LOWER POSITIONS IN THE SAME CLASS):**

At the highest level, the position requires:

- Range 23: Minimum of 5 years of qualifying experience.
- Range 24: Minimum of 10 years of qualifying experience.
- Range 25: Minimum of 15 years of qualifying experience.