



Natural Gas Distribution Engineer I

A Community Driven, Purposeful Engineering Firm

About Us

As a locally owned, boutique engineering firm founded in 2013, AEC provides professional engineering design in dry utilities, project management and consulting services to a balanced mix of public and private sector clients in the energy and telecommunications fields. We have a reputation as a truly integrated engineering firm with a unique focus on collaboration, community and sustainability. This holistic, purpose driven focus is why our clients and employees choose us.

Our Culture

At Assured Engineering Concepts, we believe in building opportunity. Those opportunities, for us, are in driving STEM (Science, Technology, Engineering and Mathematics) education for our youth, supporting our local community, and in valuing diversity of thought, education, ethnicity and backgrounds. Respect, Accountability, Honor and Trust – That is what you will find at AEC.

Giving back to the community is a core focus in all that we do at AEC. We are proud to have a partnership with Chicanos por la Causa, Inc. with the goal of engaging our community youth in the fields of STEM. Through education and economic development, we are focused on encouraging students to dream big and work hard to accomplish those dreams.

We also partner with the domestic violence organization De Colores supporting their efforts assisting families impacted by domestic violence. We continue to seek working partnerships with organizations also wishing to put an end to domestic violence as part of our community outreach efforts.

This community focus, combined with our startup feel, lend to a specific type of person who excels in our organization. You are most likely to find success at AEC if you:

- Thrive in the dynamic environment of a startup
- Seek opportunities to operate in a team environment
- Excel in a continually changing, situationally adaptive setting
- Welcome new challenges where no two clients or projects are the same
- Have a strong customer centric focus
- Have a passion for building, and providing opportunity for, the community around you



The Role

As an Engineer I at AEC, you will work closely with other Engineers and Project Leads to help carry account workload by guiding and producing designs, drawings and permits in support of natural gas designs. Your overall contribution to the business will be to ensure the organization has baseline framework for project success via innovative, detailed, and thoughtful design. You will do this by:

- **Responsibilities:**

- Review scope material and verify all required information is available for design. Reach out to client if needed to request any missing information.
- Research, download, and understand as-builts.
- Sketch proposed designs according to SWG specifications. Review designs with Drafter/Designer and provide job direction.
- QC basemap vs utility maps/as-builts and any other ROW recorded document for accuracy.
- Perform field checks, report findings, and incorporate into current drawing.
- Address internal redlines & redlines from the client.
- Complete own project CUE's and review CUE's from others
- Perform engineering calculations that are addressed in the Operation Manual (SWG) and analyze results to ensure it meets design requirements. Additionally, be able to identify engineering calculations required in non-standard situations.
- Provide a list of construction details (specifications) required for the construction of the design.
- Provide daily guidance to less experienced team members.
- Ability to read utility, architectural, and civil drawings.
- Ability to effectively manage self-time and other team members that are part of the project to meet deadlines while working on multiple projects.
- Effectively communicate daily updates on progress & completion of tasks to Project Lead and customer
- Maintain a high level of quality by proactively asking relevant questions to teammates and/or project lead, using checklists to self QC work, review past redlines to improve & avoid repetitive mistakes.
- Understand, interpret, and apply codes and specifications related to design requirements. Exposure to utility standards, municipality requirements, and the understanding of construction techniques.
- Contribute to the development and implementation of department and company goals.
- Prepare required documents and attend meetings with clients, vendors and governing agencies as required.
- Understands all types of natural gas distribution design projects.
- Provide clear and concise comments and justifications where design and budget deficiencies are observed.
- Performs minor administrative tasks.
- Identify trends or new issues and raise them for management review along with potential solutions.
- Participate in special projects or tasks as required.



Experience + Qualifications

We care more about who you are than what you have done, however here are some highlights of the type of person and background we believe would thrive:

- Bachelor's degree in civil/mechanical engineering from an accredited four-year college or university
- Valid Arizona driver's license
- Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables
- Ability to define problems, collect data, establish facts, and draw valid conclusions
- Ability to manage multiple projects simultaneously without sacrificing quality or effectiveness
- Ability to read and understand civil and electrical engineering drawings
- Ability to effectively manage time to meet deadlines while working on multiple projects.
- Knowledge of MS Office software (Word, Excel, Outlook)
- Knowledge of a drafting software preferred.
- Excellent attention to detail and impeccable work ethic
- Intermediate math skills including geometry
- Ability to understand quickly follow instructions
- Excellent written and verbal communication skills