



Job Description

Job Title: Junior Design/Estimating Engineer – Tank Division

Department: Tank Division

Reports To: Vice President of Tank Division

FLSA Status: Exempt

Prepared Date: 5/11/2026

Position Description:

The Junior Design/Estimating Engineer supports the engineering and estimating functions within RDC's Tank Division, assisting in the design, detailing, and cost evaluation of welded steel tank systems. This entry-level role is ideal for aspiring engineers seeking a career path toward professional licensure in California. The position offers exposure to design codes (AWWA D100, API 650), project management fundamentals, and real-world construction operations through hands-on collaboration with internal and external stakeholders.

Essential Job Functions may include the following or other duties as assigned:

Design Engineering

- Assist with structural and mechanical design of welded steel tanks per AWWA D100 and API 650 standards.
- Perform design calculations including shell thickness, seismic and wind loading, roof framing, foundations, and anchorage.
- Develop and review fabrication drawings, shop details, and erection plans in collaboration with the drafting team.
- Interpret and apply client specifications and regulatory codes to project deliverables.
- Collaborate with fabrication and construction teams to resolve field issues and technical discrepancies.

Estimating

- Prepare take-offs for structural steel, coatings, foundation components, and mechanical appurtenances.
- Assist in developing project cost estimates including material, labor, subcontractors, and equipment.
- Review bid documents and identify risks and scope gaps.
- Coordinate with vendors and subcontractors to obtain pricing and lead times.
- Support the preparation of formal bid proposals and technical submittals.



Project Support & Coordination

- Participate in internal planning meetings and assist in developing project schedules and logistics.
- Attend pre-bid meetings and site walks to assess field conditions.
- Respond to RFIs and support field teams during construction with design clarifications and revisions.
- Work with senior engineers and estimators to track project status, costs, and lessons learned.

Safety & Quality Assurance

- Promote RDC's culture of safety and quality in all aspects of design and construction.
- Assist with technical reviews to ensure constructability and compliance with industry standards.
- Support quality documentation such as calculations, material specifications, and test data.

Documentation & Reporting

- Maintain accurate and organized records of design files, estimates, correspondence, and bid documentation.
- Contribute to engineering reports and design memorandums for internal and client-facing use.

Minimum Qualifications

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Bachelor's degree in Civil or Structural Engineering.
- Strong understanding of engineering fundamentals and willingness to apply them in field-based scenarios
- Familiarity with AutoCAD; willingness to learn structural design tools and software (e.g., RISA, STAAD).
- Solid skills in Microsoft Excel and estimating tools (e.g., Bluebeam, On-Screen Takeoff).
- Strong attention to detail, critical thinking, and communication skills.



Preferred Qualifications

- Internship or academic experience related to tank design, steel structures, or water infrastructure projects.
- Exposure to welding, coatings systems, or fabrication methods.
- Familiarity with AWWA D100 or API 650 (training will be provided).
- Interest in pursuing construction field experience as part of professional development.

Licensing & Career Growth

- Commitment to obtaining California Professional Engineer (P.E.) license within 4 years.
- Participation in RDC's mentorship program, technical training, and licensing support.
- Clear growth path to Project Engineer, Estimator, or Project Manager roles.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Ability to lift and carry heavy equipment.
- Prolonged periods of standing and walking.
- Ability to work in various environmental conditions.
- Occasional Travel may be required.

NOTE: This job description is not intended to be all-inclusive. Employees may perform other related duties as negotiated to meet the ongoing needs of the organization.

Disclaimer: Although the Company has attempted to accurately and thoroughly describe this position, the Company reserves the right to change the same, including to change, add to or subtract from the duties outlined, within the sole discretion of the Company, at any time, with or without advance notice.

Acknowledgement: Employee signature below indicates understanding of the requirements, essential functions and duties of the position.

Name:

Signature:

Date: