

Principal Associate I (Engineer)



Who We Are:

TEI is a service-oriented, employee-owned corporation that has successfully provided transportation planning and traffic engineering services to clients since 1969. As a transportation planning and engineering firm leader, TEI focuses on providing connected, safe, and convenient mobility solutions that allow people to thrive. As planners and engineers, we work together to create thoughtful, tailored solutions to our clients' most challenging problems and facilitate meaningful choices in how people can get to the places they want to go. We are empowering the next generation of change-makers to advance the health and prosperities of communities through transportation, and we invite you to join us!

Position Summary

Principal Associates at TEI are key team members who are expected to demonstrate leadership in projects, for clients, and within TEI in the following ways:

- **Project Leadership** entails managing, directing, and executing overall project work underneath a Principal-in-Charge and developing project scopes, fees, and schedules. This position requires developing comprehensive project management skills to maintain deadlines and project deliverables.
- **Client Leadership** involves working directly with clients for projects, developing relationships with clients, and maintaining them beyond the life of a project.
- **Team Leadership** at TEI recognizes there is great value in continual learning, from experts in our fields and from each other. As a Principal Associate you are encouraged to **build your knowledge** and skills while helping grow the team members around you through **mentorship and training**.

Examples of Projects & Responsibilities

As a Principal Associate in TEI's engineering team, the following are examples of the types of projects, deliverables, and responsibilities you may expect, depending on the project and your particular skills:

- Preparing intersection and corridor traffic analyses
- Microsimulation of isolated intersections, corridors, and area networks
- Development of roadway cross-sections, schematic design, and PS&E production
- Reviewing site development plans and preparing Traffic Impact Analysis (TIA) reports
- Optimizing traffic signal timing plans, including use of priority and pre-emption
- Identifying and analyzing safety improvements, including use of the Highway Safety Manual
- Detailed design of traffic signals, on-street and off-street bikeways, sidewalk and pedestrian facilities, transit stops, and intersections focused on system safety
- Identify and follow project management standards and best practices
- Collaborate as a part of a team to appropriately staff projects and manage client work

Qualifications:

TEI requires a comprehensive and practical knowledge of transportation design elements including use of analytical judgment and decision-making abilities appropriate to the project. A successful candidate will have previous work in some or many of the following areas:

- Traffic signal timing plans and phasing optimization
- Trip Generation for mixed-use facilities
- Microsimulation of transportation facilities
- Intersection design (e.g. signalized intersections, innovative intersections, roundabouts)
- Applying best practices from industry standards and guides such as: Manual on Uniform Traffic Control Devices, Highway Capacity Manual, AASHTO Green Book, NACTO Design Guides

Candidates should meet most of the following qualifications: :

- Professional Engineer in Texas (or the ability to obtain Texas reciprocity within six months)
- 6+ years of experience, with at least 1 year of project management experience
- Excellent written, verbal, and other communication skills
- Organizational skills and the ability to manage time and multiple tasks
- Demonstrated analytic and problem-solving ability
- Demonstrated skills with Microsoft Office Suite, MicroStation and/or other CAD software, and traffic modeling software (e.g. Synchro and/or VISTRO – experience with VISSIM is a plus)

