

Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee – from furniture to food items to clothing – requires a large and complex transportation network. The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports. The Department of Transportation has approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson. TDOT Aeronautics is located near the John C. Tune Airport in Nashville, TN.



Statewide Transportation Engineer – Estimating Engineer Construction Division – Estimating Section \$118,500 annually

Job Overview

The Estimating Engineer is a statewide transportation engineer position that will manage all aspects of TDOT's construction estimating processes and systems as part of a Project Team directly responsible for delivering projects for all phases of the Project Delivery Network (PDN) in accordance with the project's scope, budget, and risk. These projects will range in complexity and risk from simple to highly complex. The estimating role requires collaboration with multiple TDOT Divisions, project team members, contractors, consultants, and other external stakeholders. It requires critical thinking and engineering judgment to problem solve and make well-informed decisions that increase the safety, performance, sustainability, and efficient delivery of TDOT's transportation system.

The Estimating Engineer ensures Department policies, technical guidance, procedures, software, and systems related to construction estimating are current and accurate for incorporation into the project delivery process. Assists in implementing the Quality Assurance Program as part of the State Construction Division's activities to reduce errors, construction delays, and contractor claims. This position must effectively articulate technical estimating concepts through training, mentoring, and collaborating as part of a matrix organization. This position provides technical assistance and guidance to the Regions, Local Programs Development Office, Freight and Logistics Division, and Aeronautics Office for construction estimating-related matters. The Estimating Engineer assists with monitoring and managing the scope, schedule, and budgets of all construction projects and working with the Project Management Division to make the required adjustments as necessary to ensure that the work completed is in alignment with the Department's Asset Management and Strategic goals.

Essential Job Responsibilities

Coordinate resources and assist Project Managers as the construction estimating Subject Matter Expert (SME) in the management of external partners together with the Professional Services Division, including the negotiation of contracts, review of consultant invoicing, development of scopes, management of contract tasks, compliance monitoring, and completion of consultant grading.

Integrate Quality Management into all estimating products, systems, and deliverables.

Assist in the development and delivery of construction estimating training and mentoring to TDOT and external stakeholders. Assist in the development of training and technical guidance that addresses acquired knowledge, risk management, technical design elements, and emerging technologies related to construction estimating for the purpose of improving team performance, creating a stronger understanding of the transportation industry, inspiring new ideas, and developing skills. Administer and manage TDOT's estimating program and software.

Assist in the development of Consultant Acquisition Plans (CAP) and oversight of external partners by serving on selection committees for professional engineering services as part of the Brooks Act. Provide support in the development of the Request for Proposal (RFP), attending project-specific marketing meetings, determining scoring criteria, participating in project information sessions, serving as a scorer as part of the consultant acquisition process, and attending de-briefs with consultants. Conduct independent reviews of the engineer's cost estimate at project milestones during pre-construction activities and provide the final cost estimate that encompasses relevant factors related to the scope of a project, the cost of resources, and national and global market trends.

Serve on Project Teams as part of a matrix organization by providing technical-related construction estimating expertise and reviews, assisting in developing proposal contract documents for project lettings, and contributing to bid reviews and bid analysis for alternative delivery projects.

Manage and take ownership of change, clarify your vision for TDOT's construction estimating activities, communicate effectively, remain transparent, and hold yourself accountable to develop, maintain, and grow TDOT's construction estimating capabilities, data, software, and systems.

Provide exceptional SME customer service to both internal and external customers, exercising effective listening skills, providing prompt responses, maintaining complete and accurate documentation, and communicating effectively.

Remain current on market and pricing trends; remain current on national best practices to collect, store, organize, and analyze cost data; participate in AASHTO, association, and other appropriate committees; collaborate with industry partners to acquire cost information for materials, labor, and equipment; review historical bidding information to ascertain industry patterns and boundaries; and assist with Risk Assessments.

Develop and implement tools to evaluate all bids received by TDOT for acceptance / rejection / assessment of materials and/or cost balance; assist in ensuring workflow items are addressed as per the Letting Process and within the time constraints laid out by the project's schedule; lead the transition of estimating software from the current legacy system to AASHTOWare Estimate and/or other software as approved by TDOT.

Assist in ensuring the Construction Estimating Section is consistent, predictable, and repeatable to provide consistently high levels of achievement, mitigation of risk, and an established track record of success.

Qualifications

- Bachelor's degree in Engineering
- Licensed Professional Engineer (PE)
- 12 years of demonstrated competency in developing and/or constructing transportation projects

Ideal Candidate

The Statewide Transportation Estimating Engineer brings the team a wealth of technical expertise and knowledge. They analyze project requirements with a keen eye for detail, ensuring accurate and comprehensive estimates. Their collaborative nature shines as they work alongside their team, Regions, and Local Program offices. The Statewide Transportation Estimating Engineer's teamwork fosters a cooperative environment, allowing for efficient communication and problem-solving. They leverage their technical expertise to engineer positive results, directly contributing to the project's success.

General Work Conditions

Yes / No

- Is this position generally performed in an office environment?

- Will work for this position be frequently performed in a field environment and may sometimes require working in inclement weather, working in a construction site, being exposed to heavy construction equipment, and doing extensive walking?

- Is this position a combination of office and field environment?

- Is an alternative work schedule including work from home eligible for this position? If yes, how many days will it be work from home and how many days in office?
 - Days from home: up to 3 days
 - Days from office: up to 2 days

- Is this position required to work under exposure to inclement weather and environmental conditions?

- Will this position require travel including overnight?

Physical Requirements		<i>Select the frequency of each physical activity. The activity must be related to the position and consistent with business necessity.</i>			
Physical Activity Required	None	Occasional (less than 1/3)	Frequent (1/3 to 2/3)	Regular (more than 2/3)	
Standing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Walking	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Reaching/stretching overhead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Crouching or stooping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Balancing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pushing or pulling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Repetitive use of hands/arms	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Repetitive use of legs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grasping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lifting – check the frequency for each weight range below. If the job doesn't require any lifting activities, check "None" on each line below.					
Up to 20 pounds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21 - 50 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
51 – 75 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Carrying - check the frequency for each weight range below. If the job doesn't require any carrying activities, check "None" on each line below.					
Up to 20 pounds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21 - 50 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
51 - 75 pounds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Eye/hand coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Speaking	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hearing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Seeing (with correction)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Close vision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Distance vision - ability to see objects clearly from a distance, usually from 20 feet or more.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Color vision/perception - ability to distinguish colors.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Peripheral vision - what is seen on the side by the eye when looking straight ahead.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Depth perception - ability to judge the distance of objects and the spatial relationship of objects at different distances.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Position Description Team Members	<i>Provide a list of SMEs who helped develop the position description. Include name and work area.</i>
Brian Egan	TDOT, Construction Division Director
Tom Byron	RIC
Paul Steinman	RIC