

Gateway Development Commission
Deputy Chief Technical Officer, Tunnel Systems
Job Description
Job ID 3007

Summary of Responsibilities

The Gateway Development Commission is seeking a highly qualified engineering professional with knowledge of both public sector transportation and private sector experience to support the Chief Technical Officer (CTO). This position will support the CTO in overseeing the technical elements, specific to tunnel systems, of project design and construction of the Gateway Development Commission's capital projects. This role will help ensure that projects are delivered within scope, budget, and schedule, and ensure that the assets created will be fit for purpose and able to be operated and maintained efficiently.

Essential Functions

- Administer executive oversight of technical elements of project design and construction with respect to tunnel planning, design, and construction work elements during environmental, design and construction phases of the project.
- Oversee design development progress and design interfaces specific to tunnel systems.
- Support CTO by identifying and mitigating project progress and other delivery issues.
- Facilitate coordination with other cooperating agencies involved with project delivery and external organizations and departments that will participate in the project development to ensure that the proper requirements, interfacing, and consensus are achieved, specifically with respect to interconnections at portals, types of equipment, and operational requirements.
- Oversee and coordinate tunnel track and facility (e.g., ventilation/fire life safety, MEP, communication, power, OCS, signals) systems planning, design and construction work elements during environmental, design and construction phases of the project.
- Oversee development of related elements for various tunnel alternatives, including comparative analyses to arrive at preferred alternative related to tunnel systems.
- Coordinate and oversee development of planning schemes, and design and construction packages for systems interconnection at portals, ventilation shafts and stations.
- Coordinate and oversee design integration with adjacent design units (tunnel, portals) upstream and downstream connections.
- Coordinates and oversees configuration control process that monitors system baseline configuration and identifies changes with right-of-way, cost and schedule implications.
- Facilitate and coordinate external design submittal reviews, as required.
- Facilitate and coordinate responses to environmental report comments as well as comments on design at different stages of design development.
- Participates in design submittal reviews.

Minimum Qualifications

- Bachelor's degree in engineering.
- Licensed as a Professional Engineer in the State of New York and/or New Jersey, or licensed in another jurisdiction with ability to obtain New York or New Jersey license through reciprocity or equivalent.
- A minimum of 10 years of demonstrated experience in infrastructure projects with specific experience in tunnel engineering.
- A thorough understanding of the technical complexities of major infrastructure projects and relevant technical best practices and innovations.
- High level analytical and creative skills to find practical solutions to complex and technical problems.
- Demonstrated experience operating and executing in complex, multistakeholder environments.
- Ability to establish a vision and create an environment for excellence.
- Demonstrated record of ethics and high standards.

Preferred Qualifications

- Understanding of project relating to tying in with existing operating system and importance of maintaining continuous system service.
- Demonstrated understanding of rail systems.
- Excellent listening, written and oral communication skills.
- Experience conducting building impact assessments for tunneling or deep excavation projects including structural survey program.
- Experience implementing a large-scale geotechnical instrumentation & monitoring program, preferably for underground construction.
- Understanding of roles and responsibilities to properly coordinate with tunnel and system project components.
- Understanding of project tying in with an existing operating system and importance of maintaining continuous system service.
- Excellent listening, written and oral communication skills.
- Experience leading the tunnel rail systems design and construction.
- Experience on projects with multiple internal and external project stakeholders.
- Understanding of NFPA 130 guidelines.

To apply, please email your cover letter and resume to jobs@gatewayprogram.org with the job title "Deputy CTO - Systems" in the subject line. *All applications for this position will also be automatically considered for all Deputy CTO roles (job IDs 3005, 3006, 3007).*

