

Gateway Development Commission
Deputy Chief Technical Officer, Tunnel Portal Facilities & Structures
Job Description
Job ID 3006

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 portal facilities and structures, 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.
- Facilitate coordination with respect to portal/tunnel interconnection with existing system and building protection planning, design, and construction work elements during environmental, design and construction phases of the project.
- Support the CTO by identifying and mitigating project progress and other delivery issues.
- Oversee and coordinate development of related elements for various tunnel alternatives, above ground connectivity, including comparative analyses to arrive at preferred and least impactful alternative.
- Oversee design development progress and design interfaces specific to tunnel portal facilities and structures.
- Coordinate and oversee the development of the planning schemes, and design and construction packages for tunnel portal areas as well as upstream and downstream connections.
- Coordinate and oversee building protection analysis and mitigation design to meet environmental commitments.
- Facilitate and coordinate with resource agencies in obtaining necessary permits, as required, to perform surveys, install/maintain instrumentation as needed, collect data, and decommission equipment.
- Oversee the interface coordination and design integration between the tunnel, track and systems work elements to ensure that the portal/interconnection and surface connection works are fully coordinated and integrated.
- Oversee and coordinate value engineering and peer review processes for related work elements to arrive at the least environmentally impactful and most practical portal and building protection options meeting environmental commitments.

- Support activities related to industry outreach and external stakeholder engagement including both public and private entities.
- Oversee development of the instrumentation and monitoring program.
- Oversee configuration control process that monitors the portal 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.
- Participate 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

- Experience leading tunnel design and construction of complex rail transit system.
- Experience with planning for tunneling projects in built environment, urban areas.
- Experience on projects with project stakeholders.
- 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 GDC and partner 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.

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