

## Alternative Job Titles

Associate or Entry-Level Civil Engineer, Graduate Rail Engineer, Rail & Transit Structural Engineer, Transportation Engineer, Rail Transit Project Manager, Senior Civil Engineer - Transit/Rail, Transit & Rail Senior Project Manager

## Job Description

A civil transit engineer will develop, analyze, inspect, and/or design transit infrastructure, transit stations, buildings, underground structures, or elevated structures or bridges. A civil transit engineer will often perform field surveys, develop transit plans, secure permitting for transit infrastructure, prepare engineering design reports, prepare constructions plans, respond to structural emergencies, and/or prepare contract documents for rail or transit engineering projects. A civil transit engineer will often participate in on-site reviews of project locations to monitor progress and ensure conformance to design specifications and safety standards. A civil transit engineer may also perform transit/traffic analysis, transportation operations, ITS and safety concepts, and pedestrian improvement plans. A civil transit engineer may utilize AutoCAD or Civil 3D software in plans for transit facility designs, diagrams, or models, and to execute engineering tasks. A civil transit engineer will coordinate with local officials to ensure compliance of design in accordance with transit agency standards and specifications. A civil transit engineer with project management duties will also develop and manage a transit project's design scope, proposal, schedule, and resource estimates, as well as coordinate efforts of the design team or supervises related support staff.

## Knowledge Requirements

- Civil Engineering in Transit Industry
- Knowledge of Local Agency Procedures/ Standard Design Principles
- Project Management Practices
- Transit Operations
- AASHTO

## Technical Skills Requirements

- AutoCAD, Civil 3D, MicroStation, or similar
- Knowledge of Microsoft Office Programs
- General Computer Skills
- Project Management Software: MS Project or Primavera
- MGSFlood, HydroCAD, WaterCAD, or similar
- Synchro, VISSIM, SimTraffic, HCS, Sidra, VISTRO, or similar
- GIS Software

## Required Skills & Abilities

- Communication Skills, Written and Verbal
- Interpersonal Skills
- Managerial/ Supervisory Experience and Leadership Skills
- Technical Communication/Report Development Skills
- Ability to work well on a team
- Analytical, Mathematical, or Problem-solving Skills
- Possess a good attitude/work ethic
- Ability to be innovative or creative
- Presentation Skills
- Time and Task Management Skills
- Possess professional judgement
- Organizational Skills/Attention to Detail
- Ability to work well independently

## Typical Salary

- \$51,301 - \$164,700

## Education & Work Experience

- Master's degree preferred; bachelor's degree in Civil Engineering required
- EIT/PE License commonly required; PTOE, PMP, or AICP sometimes preferred.
- Experience with local DOT or government agency sometimes requested.