

Civil Engineering Opportunities

Employment Opportunities: PennDOT plans to fill numerous Civil Engineering positions at varying levels throughout the Commonwealth in both the transportation and bridge specialties.

Job Duties: Engineers work in one of the many areas related to the location, design, construction, and/or rehabilitation of state highways and bridges. A general description of the major areas and duties follow. Responsibility within these areas varies depending on the area assigned and the applicable job level.

Design: Develops highway and bridge plans for projects. Performs highway and bridge design studies. Prepares and/or review designs of right of-way and construction plans for existing highway improvement and new construction projects. Prepares plan details and specifications for foundations, slopes, drainage, and other geotechnical features.

Construction: Oversees project building by private construction companies. Inspects project site materials and workmanship for contract compliance. Tests construction materials, performs geotechnical sampling, analysis and design. Investigates and analyzes unstable foundations, solid-rock slope failures and ground water problems.

Maintenance: Designs, analyzes, and evaluates pavement surfaces. Conducts engineering and traffic studies to establish speed limits, passing zones, sign placement, pavement markings and related traffic controls.

ENTRY LEVEL

Civil Engineer Trainee

This program provides a well-rounded experience, is designed to show employees the diverse types of work the department does, and prepares them for a career with PennDOT. Newly hired Civil Engineer Trainees enter a comprehensive 15-month training program that encompasses all major areas of civil engineer responsibility. Areas include, but are not limited to, design, construction and maintenance. Trainees may have the opportunity to spend a portion of their time in an area of particular interest, such as Intelligent Transportation Systems, Traffic, or Environmental Engineering. Upon successful completion of the program, trainees are promoted to the journey level and have an excellent chance for further career advancement.

JOURNEY LEVEL

Civil Engineer, Civil Engineer Supervisor

Perform preliminary engineering studies by working on component parts within an assigned functional area. Supervisors are responsible for supervising technicians and may serve as project managers.

ADVANCED PROFESSIONAL

Senior Civil Engineer and Senior Civil Engineer Supervisor

Is the recognized expert of a specialized engineering function and may have overall project accountability. Supervisors are responsible for supervising other engineers or technicians who perform preliminary engineering studies, location or foundation investigations, review or plans/specifications, or serves as construction engineers on large/complex projects.

PROFESSIONAL/MANAGERIAL

Civil Engineer Managers, Civil Engineer Consultants, and Senior Civil Engineer Managers

Civil Engineer Managers are responsible for the management and supervision of professional engineering activities associated with the design, engineering, computation, construction, fabrication rehabilitation, inspection or maintenance of highway bridges and related structures. Civil Engineer Consultants perform similar work of non-supervisory nature.

To apply for Civil Engineering positions visit: <http://www.scsc.state.pa.us>