

Transportation Engineer/Planner

TRANSPORTATION ENGINEER II / RESEARCH ANALYST II

JOB RECRUITMENT #18-13

SALARY RANGE	Mid \$50,000s to Mid \$60,000s (position level & salary commensurate with education & experience)
LOCATION	Office of Travel Trends and Forecasts
CLOSING DATE	When position is filled
AREAS OF CONSIDERATIONS	All sources

The Delaware Valley Regional Planning Commission (DVRPC) is the Philadelphia region's Metropolitan Planning Organization. We believe DVRPC is a place to work, learn, and create a career in a professional and stimulating environment that values diversity, innovation, and bringing your best self to work. If your background and experience match the following vacancy, we would like to hear from you.

Job Description

The Delaware Valley Regional Planning Commission (DVRPC) seeks a qualified candidate to join the Office of Travel Trends and Forecasts (OTTF). This position involves the assistance and preparation of traffic and travel forecasts and related data to support regional transportation projects, particularly Pennsylvania Department of Transportation (PennDOT) projects in southeastern Pennsylvania.

The employee will maintain and apply travel demand models to address the impacts of alternative transportation investments and policies on highway traffic volumes and transit ridership. Assignments may also include analyzing highway and transit travel surveys; preparing travel model input data such as land use data, transportation network characteristics, and demographic and employment data; estimating future transportation system demand for long range plans and the design of individual highway and transit facilities; and calculating operational statistics such as travel time, delay, and level-of-service. This position involves working with public sector agencies, decision-makers, and the general public. Work is performed in accordance with well-defined objectives and professional standards under the close technical direction of senior engineers and planners.

Responsibilities

- Assist in the development of highway and public transportation studies, including specification of the problem, application of travel demand models, analysis and review of simulation results, interpretation and reporting of travel forecast results, and the development of conclusions and recommendations for project implementation.
- Collect data on the functional, structural, and usage features of transportation systems, including such data as number of lanes, speeds, traffic volumes, travel times, vehicle miles of travel (VMT), truck percentages, peak hour factors, etc.
- Prepare input data for simulation models including coding of transportation networks. Tabulate travel simulation model outputs using GIS, database, spreadsheet, and other tools. Compare model results with current and historical data.
- Participate in the calibration, application, and documentation of transportation forecasting models and methods.
- Prepare traffic flow and travel desire diagrams and maps; including traffic volume counts, estimates, and forecasts.
- Perform analysis of traffic operations, including determination of level-of-service, delay, queue length, and other statistical measures of effectiveness.
- Summarize findings and recommendations of various studies, including text, tables, maps, charts, photos and other appropriate graphics, and present results to technical committees and the public.
- Perform related technical work, as required.

Qualifications

- Solid analytical and quantitative skills.
- Knowledge of the principles, practices and objectives of transportation planning and transportation engineering, and ability to relate this knowledge to the development and analysis of a regional transportation system and its components.
- Experience with applicable computer applications, graphics programs, database design, programming, word processing, statistical analysis, and spreadsheet software.
- Experience with travel modeling software, such as VISUM, TransCAD, CUBE, and/or EMME.
- Experience with traffic operations software such as VISSIM, Synchro, or Highway Capacity Software.
- Experience with field surveys, data analysis, and system evaluation.
- Experience with geographic information systems (GIS) and their applications.
- Ability to effectively present results of technical analyses in oral, written and graphic form.
- Ability to establish and maintain effective working relationships with associates, planning officials, and the general public.

Experience & Training

To classify as a Level TE II/Transportation Engineer or RA II/Research Analyst II, a minimum of three years professional experience in civil engineering, transportation planning, or a related discipline; and a Bachelors' degree from an accredited college or university. Such experience may have been gained from a combination of experience and training. A Master's degree or a full year of intern or co-operative education experience can be substituted for one year of experience.

To learn more about our work culture and benefits, visit our website: www.dvrpc.org/HumanResources/. DVRPC IS AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER. FULL CONSIDERATION WILL BE GIVEN TO ALL ELIGIBLE, QUALIFIED APPLICANTS WITHOUT REGARD TO AGE, ANCESTRY, COLOR, DISABILITY, DOMESTIC OR SEXUAL VIOLENCE VICTIM STATUS, ETHNICITY, FAMILIAL STATUS, GENDER IDENTITY OR EXPRESSION, GENETIC INFORMATION, MARITAL STATUS, MEDICAL CONDITION (INCLUDING PREGNANCY), NATIONAL ORIGIN, RACE, RELIGION, SEX, OR SEXUAL ORIENTATION. MINORITY, DISABLED, AND VETERANS CANDIDATES ARE ENCOURAGED TO APPLY. NOTE: MUST HAVE PERMANENT RESIDENCY STATUS AND WORKING PAPERS.

TO APPLY, SEND RESUME / CV WITH COVER LETTER TO HUMAN RESOURCES VIA:

EMAIL: RESUMES@DVRPC.ORG; OR

FAX: 215-592-9125; OR MAIL: 190 N. INDEPENDENCE MALL WEST / 8TH FLOOR / PHILADELPHIA, PA 19106-1520