

## Principal Transportation Engineer/Planner

TRANSPORTATION ENGINEER / RESEARCH ANALYST IV (TE/RA IV)    JOB RECRUITMENT #17-13

<b>SALARY RANGE</b>	Mid \$70,000s to High \$80,000s (position level & salary commensurate with education & experience)
<b>LOCATION</b>	Office of Modeling and Analysis
<b>CLOSING DATE</b>	When position is filled
<b>AREAS OF CONSIDERATIONS</b>	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 high-level vacancy, we would like to hear from you.

### Job Description

This position involves project management and the 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 conducting and 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 and private sector agencies, decision-makers, and the general public. Supervision may be exercised over technical and administrative personnel. Work is performed in accordance with broadly-defined objectives and professional standards and is subject to administrative and technical review during progress and upon completion by the Manager, Office of Modeling and Analysis.

### Responsibilities

- Serve as project manager for individual highway and public transportation studies, including detailed 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.
- Coordinate with PennDOT staff, their consultants, and other agencies as appropriate.
- 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. This may include field work.
- 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 presents results to technical committees and the public.
- Perform related technical work, as required.

### Qualifications

- Solid analytical and quantitative skills.
- Thorough 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.
- Thorough knowledge of 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/RA IV, a minimum of six years of professional experience in civil engineering, transportation planning or a related discipline is required. Such experience may have been gained from a combination of experience and training. Training may have been gained through graduation from an accredited college or university. 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/](http://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](mailto:RESUMES@DVRPC.ORG); OR  
FAX: 215-592-9125; OR MAIL: 190 N. INDEPENDENCE MALL WEST / 8<sup>TH</sup> FLOOR / PHILADELPHIA, PA 19106-1520