

POSITION: Transportation Planner/Engineer (Modeler)

SALARY: This position offers a very competitive salary, dependent upon qualifications and experience, as well as a comprehensive benefits package and an excellent career opportunity for the right individual.

DESCRIPTION: The Baltimore Metropolitan Council (BMC) is a private, non-profit planning entity in the Baltimore Region. The organization's primary function is to support the Baltimore Regional Transportation Board (BRTB), the metropolitan planning organization (MPO) and its regional transportation planning activities. BMC also provides support to member local governments in several other areas including procurement, reservoir protection and water quality, sustainable community planning, and workforce development

BMC is seeking a full time planner or engineer with interests in applying travel simulation tools in support of decision making.

The BMC technical planning staff develops and maintains an aggregate Trip Base Model and state of the art disaggregate household, freight, and commercial vehicle Activity Based Model(s). The advanced modeling system's simulated household, freight, and commercial vehicle tour rosters are integrated with a static highway assignment and mesoscopic Dynamic Traffic Assignment. The SHRP2 L04 scenario generator and trajectory processor are being applied to the region's modeling system to evaluate a broad range of reliability performance measures.

SUMMARY OF DUTIES:

The candidate responsibilities may include programming to support model development and scenario analysis, analyzing revealed travel behavior from national and locally collected data sets, and preparing travel model scenario inputs – demographic, socio-economic, and transportation networks. The modeling system's simulation applications are in support of a wide range of studies from long range plans to Transportation Systems Management and Operations. The candidate, in support of technical studies, will analyze the rich disaggregate simulation results by calculating operational statistics such as travel time, delay, and level-of-service and performance measures such as total household and freight miles of travel, transit ridership, and mobile source emissions. Through the use of visualization and other techniques, the successful candidate will effectively communicate simulation scenario outcomes with state, regional, and local planners.

MINIMUM QUALIFICATIONS:

- Graduation from an accredited college or university with a Bachelor's degree in transportation, urban and/or regional planning, or a closely related field
- Three years of professional experience
- A thorough knowledge of the principles, practices and objectives of transportation planning and ability to relate this knowledge to the development and analysis of a regional transportation system and its components
- An understanding of the theory and practice of travel forecasting. An equivalent combination of education and directly related travel demand modeling experience that provides the required knowledge, skills and abilities will be considered.

DESIRED QUALIFICATIONS:

- Experience with Citilabs' CUBE or other travel forecasting packages, database management software, and geographic information systems (GIS) and their applications

Send cover letter and resume to Tamiko Knight, via-email to (tknight@baltometro.org) or mail to Baltimore Metropolitan Council, ATTN: Tamiko Knight, Offices @ McHenry Row, 1500 Whetstone Way, Suite 300, Baltimore, MD 21230). Position will remain open until filled.

BMC is an EOE/M/F/H. BMC does not discriminate based on age, ancestry, color, creed, gender identity or expression, genetic information, marital status, mental or physical disability, national origin, race, religious affiliation, belief or opinion, sex, or sexual orientation.

Please Note: BMC is not sponsoring new employees in application of the H-1B Visa at this time due to budgetary constraints. All applicants must be legally authorized to work in the United States under the Immigration and Reform Control Act of 1986. Federal regulations prohibit H-1B Visa candidates from paying sponsorship fees; all sponsorship fees must be assumed by the potential employer.