

# EMPLOYMENT OPPORTUNITY

Lane Council of Governments

Eugene, Oregon



## **TRANSPORTATION MODELER (Principal or Senior)**

Salary Range: Principal (\$56,940 to \$76,980) Senior (\$50,940 to \$69,432)

*Lane Council of Governments seeks an outstanding Transportation Modeler to join our team. LCOG serves as the Metropolitan Planning Organization (MPO) for the Eugene/Springfield metropolitan area in Oregon's Southern Willamette Valley, collaborating with federal, state and local agencies on a wide range of regional transportation efforts. LCOG is seeking the right combination of energy and expertise to ensure that our transportation modeling program maintains its excellent reputation within the region and to take us into the next phase of model development. Candidates at either the Principal or Senior level are encouraged to apply.*

### **Transportation Modeling at LCOG**

LCOG currently employs a 4-step multi-modal model, estimated from 1995 local travel survey data, on the EMME/2 software platform. It is interfaced with a land use allocation model developed at LCOG. The models are used in support of the regional transportation plan, air quality conformity determinations, local transportation system plans, corridor studies, transit studies and FTA Small Starts applications, alternative mobility standards studies, corridor studies, and other travel analysis, forecasts, and planning studies as needed. In addition to the regional model, travel models for several smaller Lane County cities are also developed and used in support of transportation system planning outside the MPO area.

We are embarking on a multi-year effort to expand our modeling capabilities to support our regional partners in addressing the challenges that the region is facing. In the next year, we plan to conduct a new regional household travel survey, and to implement a land use model that is more tightly integrated with the travel model and possesses a more sophisticated understanding of economic, land market, and access conditions in the region. In the 2-5 year time frame we plan to implement a tour-based transport model that reflects a more sophisticated understanding of household responses to travel costs, together with dynamic traffic assignments to more accurately portray time-specific route choices and travel costs. LCOG also plans to improve routing and preference modeling of non-motorized trips in response to strong local interest.

Oregon enjoys one of the nation's most advanced cooperative modeling environments. The Oregon Transportation Research and Education Consortium, the Oregon Department of Transportation, the six Oregon MPO's, and other state and regional agencies participate on the Oregon Modeling Steering Committee. The OMSC has overseen development of a statewide model, has engaged in joint travel behavior surveys, data analysis, and model estimation efforts, has developed "best practices" modeling guidelines and procedures, has conducted peer reviews of models, and continues to be a leader in travel modeling research and development.

## Transportation Modeler Position Description

The Transportation Modeler position is part of a seven person Transportation team within LCOG's Government Services division. Successful candidates will have experience with development and use of urban transportation models, including estimation of trip generation, distribution, and mode choice models, and ArcGIS. Candidates should be analytically oriented with knowledge and experience in statistical analysis of travel behavior data, programming languages preferably including R, C++, and Python. Other desired attributes include:

- Experience in the use of microsimulation models for intersection analysis
- Education and experience in the development and application of activity and tour-based models
- Experience in use of EMME/2 software
- Experience in use of VISSUM
- Experience in application of integrated land use/transport models

**Principal Modeler:** This position will serve as lead transportation modeler performing highly skilled professional transportation modeling and model development work for critical and complex transportation and analysis projects. Has primary responsibility for development and use of complex and technically sophisticated travel forecasting and multi-modal travel demand models. Requires a Masters Degree in Transportation Planning, Urban Planning, Civil Engineering or related field. In addition, the candidate must possess five years experience in the use of high-level demand modeling techniques on significant projects. Any combination of experienced and education that provides the applicant with the desired skills, knowledge, and ability required to perform the job is acceptable.

**Senior Modeler:** This position will work as part of the Transportation Program's planning team to perform highly skilled professional transportation modeling and model development work for a variety of transportation and analysis projects. Requires a Bachelor's Degree in Transportation Planning, Urban Planning, Civil Engineering or related field and a minimum of 2 years experience in the use of high-level demand modeling techniques. Any combination of experienced and education that provides the applicant with the desired skills, knowledge, and ability required to perform the job is acceptable.

## AGENCY INFORMATION

Lane Council of Governments is a voluntary association of local governments in Lane County, Oregon. Dedicated to solving area-wide problems, LCOG helps area cities, Lane County, educational districts, and special-purpose districts reach their common goals. In addition, the agency serves as a regional planning, coordination, program-development organization. For more information regarding LCOG's projects, programs and services, visit [www.lcog.org](http://www.lcog.org). For information about the Central Lane MPO, visit [www.TheMPO.org](http://www.TheMPO.org).

## ABOUT THE AREA

Nestled in the southern portion of Oregon's famous Willamette Valley, Eugene and Springfield are great communities for those who love the convenience of a city and the laid-back, cozy atmosphere of a smaller town. With a combined population of more than 230,000, Eugene/Springfield is a hub for many annual festivals, concerts, and sporting events and is the home for the University of Oregon. In 2008, *Track Town, USA* hosted the U.S. Olympic Track & Field Trials at historic Hayward Field and will host the Trials in 2012.

The Eugene/Springfield area is a paradise for those who seek a high quality of life amid beautiful, natural surroundings. Recreational activities like cycling and running are more than pastimes—they're a way of life. Our proximity to the scenic McKenzie River Valley, the majestic Cascade Mountains and the breathtaking Oregon Coast make it the ideal location to enjoy the best of all worlds. For more information about our unique part of the world, go to [www.visitlanecounty.org](http://www.visitlanecounty.org).

## FOR MORE INFORMATION

To apply for this position, complete an LCOG application and provide responses to the Supplemental Questionnaire. Send completed materials to:

Marianne Griffin, Human Resources  
Lane Council of Governments  
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[mgriffin@lcog.org](mailto:mgriffin@lcog.org)

**NOTE:** This position will remain open until filled.