

# Employment Opportunity

Lane Council of Governments

Eugene, Oregon

## Principal Transportation Modeler

Salary Range: \$58,032 to \$79,092

Application Deadline: February 12, 2010 by 5:00 pm PST



*Lane Council of Governments seeks to expand our team with a talented Transportation Modeler. 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 as we enter a new phase of model development.*

### Position Description

The Transportation Modeler position is part of a seven person Transportation team within LCOG's Government Services division. The Transportation Modeler will work as part of the Transportation Program to perform transportation modeling and model development work for both short- and long-range transportation projects.

Successful candidates will be analytically oriented with knowledge and experience in statistical analysis of travel behavior data and programming languages including R, C++, and/or Python. Experience with development and use of urban transportation models, estimation of trip generation, distribution, and mode choice models, and ArcGIS is desired. Education and/or experience in the development and application of tour-based models, knowledge of EMME/2 and/or VISSUM, and experience in application of integrated land use/transport models are also desired attributes.

This position requires a Bachelor's Degree in Transportation Planning, Urban Planning, Civil Engineering or related field. The Principal Modeler requires at least six years of professional experience. Experience in the use of high-level demand modeling techniques is preferred, but any combination of experience and education that provides the applicant with the desired skills, knowledge, and ability required to perform the job will be considered.

## Transportation Modeling at LCOG

LCOG currently employs a 4-step multi-modal model, estimated from 1995 local travel survey data, using 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, 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. We are conducting a new regional household travel survey implementing a land use model that is more tightly integrated with the travel model and which 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. And finally, LCOG's Transportation Program is gearing up to respond to Oregon's climate change initiative, providing regional and national leadership in planning for the reduction of greenhouse gas emissions within the transportation sector.

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.

## 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 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).

## TO APPLY

Interested applicants are encouraged to send a *letter of interest* and a *résumé* by 5:00 pm PST Friday, February 12<sup>th</sup> to:

Marianne Griffin, Human Resources  
Lane Council of Governments  
859 Willamette St., Suite 500  
Eugene, Oregon 97401  
[mgriffin@lcog.org](mailto:mgriffin@lcog.org)