Regional Economist / Analyst

The Job

MIG, Inc. is recruiting a Mid-level Regional Economist/Analyst to build spatial interaction models of inter-regional trade using information from MIG’s Social Accounting (SAM) data warehouse of regional and national economic accounts. The successful candidate will be primarily responsible for implementing and enhancing MIG’s Trade Modeling System (TMS), a module of the IMPLAN system. TMS is a collection of individual trade models for specific commodities and factors of production. These models depict the trade behavior of commodities and factors of production within the context of I-O and CGE modeling frameworks. The work involves using various econometric and data transformation methods to design, revise, and implement theoretically sound models of regional trade flows to add to the TMS collection. The work also involves extracting and manipulating the data necessary to build TMS models, drawing data from MIG’s SAM data warehouse using complex “Extraction-Transformation-Load” (ETL) work processes in a database environment.

Duties

Plans, schedules, and builds TMS trade models using generally accepted and sometimes fairly complex economic or statistical techniques.

Using conventional ETL methods, obtains data from MIG’s SAM data warehouse and other sources for constructing TMS models.

Using conventional ETL methods, obtains new data pertinent to building TMS models from extant sources and loads the data into MIG’s SAM data warehouse.

Evaluates all TMS-related data and makes adjustments to ensure reliability and comparability.

Evaluates all TMS component trade models and makes enhancements and revisions to ensure reliability and comparability.

Assists the MIG team in developing new methods and products.

Knowledge and Skills

PhD in Economics or Applied Economics preferred, Masters with experience will also be considered.

Applied knowledge and experience in modeling the spatial interactions that constitute regional economic trade.

Applied knowledge and experience with regional social accounting systems, regional economic modeling
techniques (including input-output analysis, computable general equilibrium modeling) and econometric analysis of regional economic behaviors.

Demonstrated experience in ETL tools and methods applied to large databases of economic information.

Demonstrated experience with a wide array of analysis systems and tools such as SQL and GIS database modeling, MATLAB, GAMS, and programming languages like Python.

Quantitative skills and experience in using statistical software packages such as SPSS or SAS useful. Knowledge and experience with economic analysis programs such as IMPLAN or REMI are desirable.

Interested candidates should send a cover letter, resume to Ambrose Alward at jobs@implan.com or to MIG Inc., PO Box 837. Hudson, WI 54016. The position will remain open until filled. MIG is a AA/EEO company. Please see www.IMPLAN.com for more information about MIG Inc.