

CAREER OPPORTUNITY



| AnyLogic North America

DOL Category: 15-2031 Operations Research Analysts

Title: Simulation Modeling Consultant

Responsibilities: (included but not limited to):

- Develop and implement AnyLogic models and simulations for Customers.
- Train and support users in development and implementation of AnyLogic models and simulations.
- Identify client needs and define the problem scope in order to develop effective yet creative solutions through a turnkey project or enhanced custom training.
- Incorporate system requirements in constructing simulation models employing unique capabilities of AnyLogic software by utilizing the most effective simulation method or combination of simulation methods.
- Utilizing industry specific libraries and capabilities of AnyLogic such as Rail Library, Road Traffic Library, Pedestrian Library, Fluid Library and Geographical Information System (GIS).
- Building expletory experiments such as optimization, parameter variation, sensitivity analysis and calibration to further analyze the system and quantify the possible scenarios.
- Verify and validate the model based on historical data and domain expertise.
- Ex-post statistical analysis of simulation outputs and documenting the possible solutions and recommendations.

Minimum Requirements:

- Master's degree in Operations Research, Civil Engineering, Industrial Engineering, Mechanical Engineering, or closely related plus at least 2 years of experience in occupations performing simulations and modeling.
- 2 years of modeling and simulation experience, 2 years of experience working with the three major simulation paradigms: Agent Based modeling, Discrete Event, and System Dynamics.
- 2 years of experience working with multi-method models.
- 1 year of programming experience in either Java, C# or C++.
- 1 year of experience working with a project management software, either Microsoft Project or Oracle Primavera P6. Must have 1 year of experience working with a relational database, either Oracle MySQL, Microsoft SQL, MS Access or SQLite.

****Work is at Employer's Office (20 N. Wacker Dr., Chicago, IL, 60606) with domestic travel approximately 3-4 times per year.**