**Applied Economist**

We are seeking a high-potential applied economist to assist in enterprise risk identification, quantification, monitoring, analyze and forecasting. The position will be based in Dearborn, Michigan. The applied economist will engage in enterprise risk model development, evaluation, and deployment for use in support of a wide spectrum of Ford business activities including supply chain, product development, manufacturing, marketing & sales, sustainability and strategic planning. The applied economist position provides a great deal of autonomy and requires an entrepreneurial and collaborative approach in conducting research and selecting desired modeling methodologies.

Responsibilities include, but are not limited to:
- Proactively engage with business stakeholders to understand their business needs to ensure that analytical solutions are practical and business driven, and add value.
- Employ econometric/statistical/data mining techniques to identify, quantify, monitor, analyze, and forecast different sources of risk.
- Develop simulation and scenario planning schemes to generate insights that guide and influence improved business decisions.
- Develop optimization frameworks to determine efficient allocation of risk, funding, assets, human resources, and materials to achieve optimal business outcomes.
- Support the deployment of new analytical tools to enhance quantitative risk management. Maintain and upgrade previously developed models and tools.
- Work with various data sources and platforms (PC, Mainframe, Unix/Linux, Teradata) to gather data.
- Execute both descriptive and inferential ad hoc requests in a timely manner.
- Communicate and present findings and insights to business customers and executives.

Desired Qualifications include:
- Graduate degree in Economics/Finance/Business with extensive training and research experience in quantitative analysis and modeling. M.S. required, Ph.D. preferred.
- Demonstrated skills in conducting complex quantitative analysis in a business or academic setting.
- Demonstrated skills in large scale data manipulation and mining/pattern recognition.
- Demonstrated proficiency with simulation techniques such as Monte Carlo.
- Knowledge of theoretical/empirical techniques commonly used in industrial organizations (e.g. game theory, contract theory, oligopoly theory).
- Knowledge of models with limited dependent variables (e.g. choice models, selection models).
- Knowledge of optimization techniques (e.g. linear/nonlinear/dynamic programming).
- Strong programming skills in R, MATLAB, and/or SAS required; some experience with SQL. Experience with C# and/or JAVA for developing Windows and Web applications is a plus.
- Experience with parallel/grid computing is a plus.
- Experience with Microsoft EXCEL, PowerPoint and Word. Ability to create and manipulate pivot tables and graphs a plus.
- Ability to translate complex quantitative methods into easily understood results for all levels of business customers.
- Ability to handle multiple projects within a given timeframe.
- Strong oral and written communication skills.

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Candidates for positions with Ford Motor Company must be legally authorized to work in the United States. Verification of employment eligibility will be required at the time of hire.

Interested candidates: please send your resume to Yong Yang at yyang1@ford.com