**Predictive Modeler Job Description**

Contrary to some marketing brochures, predictive modeling is not a turnkey solution. It requires intelligence to coordinate and make sense of the “Big Data.”

The following serves as a recommendation and should be adapted to the needs of your organization. One note is that this skillset will be more and more valuable in the marketplace. You should consider not only recruitment, but also retention strategies to build continuity and stability.

**Duties**

* Work with stakeholders to build, validate, and implement analytics tools and models that predict student and other behaviors in technology enhanced learning environments (hybrid, online, etc.)
* Participate in the conceptual design, development, validation, deployment, implementation and maintenance of series of analytics models (advanced statistical models).
* Coordinate efforts with key internal constituencies including Information Technology, Institutional Research, Student Services, Academic Affairs and Institutional Advancement.
* Provide ad-hoc analytics reports and support as needed
* Present findings and suggest areas for further research and intervention

**Qualifications**

* Experience designing learning analytic or other types of predictive models
* Demonstrated experience with different data-mining algorithms and methods (Logistic Regression, variable clustering, Neural Network, Genetic Programming, Naive Bayes, Decision Trees [Chaid and/or CART] or statistical programming) in at least one of the following software: SPPS, R, SAS, Matlab or similar statistical package
* Experience in building and analyzing large data sets, data cubes/warehouse, federated data

***Hint***: The banking and financial sectors are great sources of potential talent. Think twice before requiring a full Ph.D. in Statistics, Operations Research, Mathematics, Computer Science, Economics, Industrial Engineering and so forth. Instead, ask for experience over formal education.