

Intelligent Tutoring Analyst

Waterford Research Institute, developer of *Waterford Early Reading Program*[™] and *Waterford Early Math and Science*[™], is currently looking for a skilled, knowledgeable, and hardworking Intelligent Tutoring Analyst who is passionate about giving every child the chance to succeed. If you are interested in working for a non-profit organization whose mission is "to enable every child with the finest education possible by providing high-quality educational models, programs, and software," we would like the opportunity to meet with you and discuss the possibility of you joining the Waterford team.

Job description

The Sequencer Analyst will leverage their strong background in statistics, Bayesian theory and other mathematical skills to develop mathematical and predictive models for different sequenced learning programs. The Sequencer Analyst will be involved in building models from research to final implementation.

Responsibilities

- Develop and apply mathematical models & statistical theories for data collection and analysis to ensure high quality educational sequencer. Utilize advanced knowledge of Bayesian theory, decision theory, and mathematical models for accurate reports.
- Write technical reports & research papers documenting data and conclusions.
- Advise staff on research conclusions.
- Participate as a key member of our statistical research team dedicated to building models and approaches that cross a wide variety of domains and problems.
- Develop enhancements to current solutions and work with Waterford's production teams to transition mature models into ongoing processes.

Qualifications

- Ph.D. in Cognitive Science, Psychology, Statistics, Applied Mathematics, Electrical Engineering, Computer Science, Psychometrics or a related field
- Background in education or early childhood
- 3-5 years of experience in data mining, inference modeling and/or other quantitative analysis
- background in cognitive/learning theories preferred
- Knowledge of: Bayesian theory, decision theory, probability theory, estimation techniques
- Strong analytical talent with excellent ability to infer analytical models with large data sets
- Excellent communication skills combined with the ability to present technical material to diverse audiences with different levels of statistical knowledge both internally and externally

- Experience working with large, disparate data sources and developing scalable routines to process and analyze

Benefits

- 403(b) retirement plan, matched up to 5%
- Medical, dental, life, STD, LTD, and AD&D insurances
- Opportunity to research and work with latest technologies
- Consistent 40-hour work week
- Free drinks and healthy breakfast snacks
- Complimentary UTA/Trax pass
- Great work environment

Applicants should submit a cover letter as well as a current resume with references. Please e-mail information to hr@waterford.org.

Waterford Institute is a non-profit research center dedicated to helping children learn through the effective use of technology. Visit us at www.waterford.org to learn more.