



## GAME DESIGNER

**Location:** Calgary

### **Summary:**

We are currently seeking a dynamic individual for a high-paced position in designing games for a leading developer of online casino. This person will be able to use their creative and mathematical skills to develop games that will be played by millions of people around the world. You will be working with highly motivated teams that are bent on releasing the most cutting edge and fun games in the industry.

### **Responsibilities:**

- Design fun, innovative math models for optimal player appeal
- Accountable for the full scope of game design (concept to market activities) that involves basic creative thinking, industry and competitive knowledge and technical skills
- Create innovative game math models for slot/video machines and other casino gaming applications that provide entertainment for players, as well as provide revenue for the customer
- Calculate payback percentages, hit frequencies, standard deviation tables, and hit distribution characteristics for all games, features, progressives, and bonuses
- Utilize programming tools to verify math models and create demos
- Write simulation program code to analyze game play in order to maximize player enjoyment, and analyze results of the simulations to verify games are paying properly
- Prepare Excel spreadsheets for lab submission, and check all calculations and formats file to specifications
- Update and improve existing code templates and develop new or improve spreadsheet payout templates
- Work closely with regulatory agencies to resolve any regulatory concerns.

### **Required Competencies and Experience:**

- Knowledge of advanced probability models and methods of solution; the ability to find dependencies in math structures; and, strong logic and problem solving skills are essential
- Prefer candidates with basic scripting/programming skills with languages commonly used for prototyping (e.g. Python, VBA), with an emphasis in probabilistic algorithms and analysis of volatility
- Proficient in the use of Excel spreadsheets, especially linking and formulas, and the application of calculating probabilities in spreadsheets
- Understand player preferences / likes / dislikes
- Strong creativity and imagination skills
- Must be able to read, edit, and adapt existing code
- Strong understanding of the software development process
- Excellent communication skills (written and verbal) and able to communicate results of analyses to others
- Ability to work well in a team environment
- Bachelor's degree in Applied Mathematics or a related area with 3-5 years of related experience with an emphasis in probability and statistics

**Desired Competencies and Experience:**

- 3-5 years experience developing math models for slots and casino games
- Experience using SlotDesigner would be an asset
- Candidates who have developed math models for at least 2 slot games that are currently in play in the Class III market or online will be given preference.

Apply for this position now at [employment@chartwellgames.com](mailto:employment@chartwellgames.com).