



Mathematician

BetGames is an award-winning international developer and distributor of innovative gaming products for the betting industry (B2B). Our mission is to help our partners to nurture casual players into gamers. Since pioneering the live dealer betting sector in 2012, we have grown into a market leader, offering a unique blend of LIVE, RNG, and branded betting games, including numbers, table games, and other casino experiences such as crash games, tap games or slots. Our diverse portfolio, including games like Skyward, Crypt of Giza, Wheel of Fortune or Penguin Rush is designed to be simple, engaging, and entertaining for recreational bettors and gamers. With a strong focus on fun and safe gaming, we serve over 2000 brands globally in more than 50 countries, delivering top-tier interactive experiences to online and land-based operators worldwide.

BetGames is seeking a highly analytical and innovative Mathematician to support the development of game mathematics across all gaming verticals. This role will work closely with Product, IT, Development, and Design teams to create mathematically sound and commercially viable game concepts that can be built, tested, optimized, and implemented into new product development initiatives.

Key responsibilities

- Design and develop mathematical models for new and existing gaming products.
- Create RTP models, payout structures, volatility profiles, probability distributions, and balancing systems.
- Collaborate with Product and IT teams to transform product concepts into technically implementable mathematical frameworks.
- Support rapid prototyping, testing, and optimization of new gaming concepts.
- Conduct simulations and statistical analysis to validate game outcomes and performance.
- Produce mathematical specifications and documentation for development and QA teams.
- Research and develop innovative game mechanics and engagement models.

AI & Technology Competencies

- Leverage AI-assisted analytical tools to enhance game design, balancing, and modelling processes.
- Use machine learning and predictive analytics concepts to support player behaviour analysis and product optimization.
- Work with AI-enabled simulation and automation tools to improve testing efficiency and mathematical validation.
- Collaborate with technical teams to identify opportunities for AI integration within game mechanics and product innovation.
- Stay informed on emerging AI technologies and industry trends relevant to gaming and product development.
- Demonstrate strong digital literacy and adaptability in using modern AI-powered productivity and analytical tools.

We expect you have

- Degree in Mathematics, Statistics, Applied Mathematics, Physics, Data Science, or related quantitative discipline.
- Strong understanding of probability theory, combinatorics, stochastic modelling, and statistical analysis.
- Experience developing mathematical models within gaming, betting, casino, or similar probability-driven industries.
- Strong analytical and problem-solving skills with exceptional attention to detail.
- Experience using Excel and scripting/programming languages such as Python, R, or similar.
- Ability to communicate complex mathematical concepts clearly to technical and non-technical stakeholders.
- Experience working in agile or cross-functional product development environments.

Desirable Experience

- Previous experience within iGaming, live gaming, casino, or sports betting industries.
- Knowledge of player engagement metrics, behavioural modelling, and game economy balancing.
- Familiarity with gaming compliance and regulatory standards.
- Experience using data visualization, simulation, or AI-assisted analytical platforms.

Personal Attributes

- Creative and innovative thinker with a passion for gaming and product development.
- Collaborative mindset with strong communication and stakeholder management skills.
- Commercially aware and focused on player engagement and product performance.
- Curious, adaptable, and proactive in learning emerging technologies and methodologies.
- Strong organizational and documentation skills.

By joining us you will

- Be part of an international company with a dynamic, fast-paced work environment
- Enjoy working in a modern, centrally located office in Vilnius, complete with free parking nearby
- Experience a flexible work model with 2 Fridays off and 8 remote workdays per month
- Bring your ideas to life and grow professionally in an environment that values trust, not micromanagement
- Unlock opportunities for growth with internal and external training
- Access comprehensive health insurance after your trial period
- Receive a digital shop budget once you've completed your trial
- Stay active with a sports club membership, available after the trial period
- Gross salary range 2833 – 3333 EUR gross.

By participating in the competition for this position, you understand and agree that UAB "TV Žaidimai" will store and process your personal data provided by you in accordance with the procedures laid down by law.

Interested candidates should submit their CV to cv@betgames.tv along with a summary of their experience in mathematical modelling, gaming product development, and AI-enabled analytical capabilities