



Simulations Engineer

Are you a hands-on problem solver ? Not afraid of vectors and quaternions ? Are you able to break down large problems into smaller blocks ? Looking to use your skills to bring innovative solutions to the space industry ?

Then we want you on our team !

At Blackswan Space, we're shaping the future by empowering satellites with intelligent software. Our team is currently building one of its kind simulations tool called the Mission Design Simulator (MDS) that is not only able to model space physics accurately, but also provides photo-realistic 3D graphics running in real-time. This enables our customers to quickly prototype, test and operate their satellite missions, including the most fascinating ones such as repairing, building and cleaning up defunct satellites.

Your ideal profile would be either 1) a strong Space Engineer with affinity for software engineering or 2) a strong Software Engineer with orbital mechanics/space engineering knowledge.

To level up your development knowledge and abilities all while helping build the future space economy, [send us your CV !](#)

Job Description

- Design, implement, test new features in a Space Mission Design Simulator using Unity Engine. Technical challenges span anything from Astrodynamics to GNC to Mission Operations to Robotics.
- Perform software demonstrations to potential customers.
- Expand our QA frameworks.
- Communicate with customers to better understand their needs and convert them to technical requirements.
- Research which technical solutions would best fit the problem and project needs.

Job Requirements

- Degree in Aerospace, Software Engineering, Robotics, Applied Mathematics, Physics or Computer Science.
- 2+ years of experience with Python or MATLAB/Simulink is a must.
- Hands-on experience with Unity/C#/C++.
- Good understanding of 3D math (vectors and quaternions).

- Self-motivation and ownership.

Assets

- Experience in GNC or Computer Vision.
- Practical experience with implementation of real-world physics including kinematics and dynamics.
- Knowing how to write multi-threaded code.
- Experience in writing network code.

Job Location: Vilnius city center

Employment Type: Full-time, on-site

Salary range: €2,000 – 3,000/month NET depending on experience

Working at Blackswan Space - What's in it for me ?

- Solve unique problems that have not been tackled yet in a rapidly growing industry.
- Work alongside individuals who share your values and are passionate about space.
- Flexible and supportive working environment with real ownership of your work.
- Time allocation for personal improvement in necessary technical subjects.
- Ability to work on projects that match your passions with significant career growth potential.

To Apply: Please send your CV to info@blackswanspace.com