



## About IMAGINE

Imagine ([www.imagine3d.fr](http://www.imagine3d.fr)) develops custom real-time 3D visualization software based on our internal 3D engine. The company has been created in late-2006, and is located in Northeast France, south from Colmar, on the beautiful Alsatian vineyard road.

Our “Image Generator for Air Traffic Control simulator” product is used by customers all around the world (UK, Sweden, Ireland, Poland, Netherlands, Dubai, Qatar, Oman, Malaysia, Indonesia, Brazil, etc...).

## Job Description

Imagine is looking for a creative, passionate and hard-working 3D graphics engineer. The successful applicant will design, implement, enhance, and optimize new and existing modules from our 3D engine, libraries and tools:

- Extend software and 3D engine to meet customer’s requirements and keep technology up-to-date
- Investigate, prototype and implement new rendering techniques
- Extend and integrate our technology into new products
- Create and/or maintain asset pipelines - check and integrate assets delivered by artists
- Test and document code
- Fix bugs reported by customers

## Required skills & experience

- Passion for real time computer graphics and solid software engineering principles
- Bachelor’s / Engineer’s degree in Computer Software Engineering or equivalent
- One-to-three years’ experience as a graphics engineer
- Strong C/C++ coding and debugging skills
- Strong understanding of 3D math
- Experience with advanced lighting, shadowing techniques and modern graphic pipeline
- Experience with Direct3D, OpenGL, Vulkan or other graphics APIs (experience with D3D11 and/or Vulkan would be great)
- Experience with shader code (e.g. HLSL, Cg, GLSL)
- Experience with multithreading
- Proactive, creative problem solver, good communication skills
- Knowledge of written and spoken English

## Optional skills

- Experience with physic engine API (PhysX, Bullet, etc...)
- Experience with synchronization over network
- Experience with large codebase
- Experience with globe/terrain rendering algorithm

## To apply

Send an email to Grégory Jaegy ([g.jaegy@imagine3d.fr](mailto:g.jaegy@imagine3d.fr)) with resume and cover letter.