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Industrial Light & Magic

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ILM Senior R&D Engineer - Rendering/Shading

Description

As part of the R&D Department that supports Industrial Light & Magic, an exciting opportunity exists for a senior engineer to join the rendering/shading team as a key contributor to the development of our next-generation set of physically-based shaders.

R&D Engineers work closely with lead artists and supervisors to solve technical challenges and meet the demands of high-end VFX production.

The duties are a mix of applied research, development, maintenance and end-user support, as an integral part of the creative process on major motion pictures such as Star Wars, Jurassic World, Avengers, and many others.

Primary Responsibilities:

Design and architect solutions based on state-of-the-art rendering and shading technologies.

Develop physically-based shaders and tools for Renderman RIS and/or other path

Build and maintain relationships with key artists, working directly with them to solve lighting and rendering challenges.

Keep abreast of the state of the art in rendering as well as available commercial software, serving as a knowledge resource for technologies used in production at ILM.

Provide technical support to artists in production.

Participate in discussions surrounding future technologies and/or systems regarding their appropriateness of solution.

Collaborate with other members of the rendering/shading team, leading projects and project teams as appropriate.

Education, Experience and Skills:

Bachelor's degree in Computer Science or related scientific or engineering discipline plus 5+ years of professional experience; advanced degree in Computer Science with a focus in Computer Graphics plus 3+ years of professional experience strongly preferred.

3+ years software development experience using C++.

Experience with shading languages and/or shader APIs, such as RIS, RSL, OSL, Arnold, Clarisse, or VRay.

In-depth knowledge of physically based rendering (Monte Carlo integration, BSDF models, light transport algorithms, etc.)

Good understanding of core computer graphics skills (linear algebra, differential geometry, digital signal processing, etc.)

Excellence in problem solving and balancing quick turnaround with long-term quality. Must be detail oriented and organized, possess strong communication skills, and be able to handle a variety of tasks in an efficient manner.



Primary Job Duty: rendering shading

Primary Software: APIs

Salary: DOE





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