

## FPGA Developer

**Keywords:** 3D scene data structures, spatial processing, hardware acceleration, FPGAs.

### Overview

Quidient seeks a skilled computer scientist/engineer to join our growing company. You will be able to design, implement and test Quidient's spatial processing algorithms in hardware acceleration environments (e.g., FPGAs) and in C++. You will be a quick thinker with great coding/debugging skills, excellent time-management skills and strong collaborative skills. This is an important technical position at Quidient. Title, compensation (including equity) and relocation expense reimbursement will be commensurate with experience.

### Requirements

- Bachelor's degree or higher in Computer Science, Electrical Engineering or equivalent.
- 5+ years of FPGA development experience to include most of the following: FPGA configuration and interface definition; FPGA programming using VHDL, Verilog, OpenCL, C/C++ and/or Xilinx tools; demonstrated ability to debug FPGA designs in real-world systems; use of integrated logic analysis tools; development work in a complex codebase as part of a team.
- Deep understanding of massively parallel hardware acceleration algorithms and data structures.
- Deep understanding of processor architectures.
- Brilliant thinker who can contribute both "inside and outside the box."
- Live near, or be willing to relocate to, our tech center in Columbia, MD.

### Preferences

- Experience successfully working in cross-functional teams.
- History of successful delivery of products.
- U.S. citizen or permanent resident with or capable of obtaining DOD security clearance.
- Record of success in 3D technology companies, including startups.
- Familiarity with MATLAB<sup>®</sup> or Python (NumPy/SciPy) scientific computing environments.

### About Quidient

Quidient ([www.quidient.com](http://www.quidient.com)) is a 3D imaging technology company with a tech center located in Columbia, MD. We are scientists, engineers and entrepreneurs who have built some of the most advanced 3D imaging systems in the world. Our mission is to become the world's preferred supplier of scene reconstruction and processing engines for digital devices like smartphones and AR glasses. Our Engines record 3D geometry, materiality and 2D light flowing in generalized scenes and will enable thousands of applications that will transform the way we live and work. We are partnering with some of the top organizations on the planet. Our culture is open, honest, supportive, decentralized, multicultural and high-performance.



*If you are interested in a career with Quidient and feel qualified for the position described, please send your resume in confidence to [brandon.turley@quidient.com](mailto:brandon.turley@quidient.com). Quidient is an equal opportunity employer. Direct applications only.*