Scientific Data Visualization Engineer

*Intelligent Light’s Applied Research Group (ARG) seeks computer scientists, engineers, mathematicians, physicists, technically minded people of all types to join our team. By joining the ARG Crew you’ll become part of the team developing the next generation of commercial scientific and engineering simulation data management, post-processing and visualization tools for exascale.*

**ESSENTIAL DUTIES**
- Code, Code, Code
- Report to the Manager of the Applied Research Group
- Deliver high quality software products to project Principal Investigators.
- Contribute and/or originate technical reports, conference and journal papers.
- Present at technical conferences and trade shows (SuperComputing, Viz, AIAA SciTech, etc.)
- Active participation on Agile Scrum teams as developer

**ESSENTIAL SKILLS, KNOWLEDGE, ABILITIES**
- Bachelor of Science in Computer Science, Mathematics, Physics, Engineering or related fields.
- Experience with Scientific Visualization software such as VisIt, VTK, Paraview, FieldView, TecPlot.
- Demonstrated strong Computer Science/Mathematics skills.
- Advanced knowledge and significant programming experience in C, C++, and Python.
- Demonstrated verbal and written communication skills necessary to effectively collaborate in a team environment, present and explain technical information.
- Demonstrated strong problem-solving skills necessary to address challenging problems.
- Self-motivated and able to carry out work with minimal direction.
- U.S. Citizen or Residency required.

**DESIRED SKILLS, KNOWLEDGE, ABILITIES**
- Experience with the use of VisIt and able to modify source and build executables
- Experience on high performance computing systems.
- Experience implementing parallel algorithms for distributed computers using MPI.
- Experience implementing parallel algorithms using OpenMP, CUDA, or OpenCL.
- Experience building and deploying Web applications (Javascript, PHP, d3).
- Experience maintaining a large code base.
- Database experience (MongoDB, SciDB, MySQL, noSQL, etc).
- Trained in Agile/Scrum project management.
- Experience in Computational Fluid Dynamics and existing solvers such as OpenFoam, OVERFLOW2, FUN3D, StarCCM, Fluent/CFX.
- Ability to write winning technical proposals and serve as the Principle Investigator.
- Willing to locate to either Livermore, California or Rutherford, New Jersey.

**About Intelligent Light**

*Winner of multiple IDC HPC Innovation Excellence Awards, Intelligent Light provides industry-leading software and services that unlock the power and value of a highly productive CFD workflow for engineering and research organizations in a variety of industries around the world. The company’s flagship FieldView™ product line is the most widely used CFD post-processing software for engineering and research, encompassing data management, workflow automation, visualization, and more. Intelligent Light’s expert staff provides production-related engineering services, while its Applied Research Group conducts pure research on the cutting edge of CFD science. With customer success its paramount goal, Intelligent Light is driving real-world solutions to the toughest challenges in CFD today.*  [www.ilight.com](http://www.ilight.com)

**Send Resume and Cover Letter to:** Dr. Earl P.N. Duque, Manager of Applied Research, epd@ilight.com