Optical Scientist - Corning

Scope of Position: Design, execute and support ongoing projects in the general area of light management, waveguides and devices. Specific projects include characterization and optimization of light scattering from thin films, measurement of glass optical properties, fiber optics and optical communications. Areas of specialization include ray optics, wave optics, scattering theory, optical materials as well as surface characterization. Work with nonlinear optics and semiconductor physics is possible.

Day to Day Responsibilities: Position requires considerable problem-solving expertise, including but not limited to the building of system prototypes, experiment design, execution, interpretation and physical modeling. Effective solutions will require integration of optical, electrical, and mechanical aspects of optical systems. Position will also involve frequent and effective communication with internal and external customers.

Travel Requirements & Work Schedule: This position entails approximately 5-10% travel. Regular schedule is 40 hours per week.

Required Skills

1. Innovation.
2. Fundamental optical physics understanding, including the optics of thin films and fiber optics.
3. Function as technical lead on a team and set technical objectives.
4. Develop new measurement techniques.
5. Effective communication with customers, technical staff and management.
6. Demonstrated ability to live Corning's values.

Education and Experience: MS or PhD in optics or physics with significant laboratory experience.

Desired Skills:

1. Optical-mechanical design and implementation.
2. Proficiency with physics-based computer modeling.
3. Detailed understanding of fiber optic component technology.
4. Demonstrated ability to invent and capture intellectual property.
5. Experience with semiconductor physics and lasers, including design and simulation of active optical devices.

Soft Skills: Communication and presentation skills for communication with customers, supervisory skills and ability to lead cross-functional, international teams.