Are you interested in “Life Changing Innovation”? As with Thomas Edison, we have a history of working with the world’s greatest innovators. We solve our customers’ most complex problems that others can’t or won’t. Collaboration, Innovative Spirit and Career Development are just a few of the reasons world class professionals choose Corning Incorporated for a career. We are headquartered in Corning - a vibrant city in Upstate, NY where residents enjoy the benefits of a rich arts and culture scene, one of the world’s fastest-growing wine regions and a family friendly area with affordable homes and quality education.

Corning is the world leader in specialty glass and ceramics, creating and manufacturing keystone components that enable high-technology systems.

Corning’s history is filled with breakthrough technologies that have played an important role in the way the world works. We thrive on solving difficult, commercially relevant problems through an innovative and collaborative research and development process. Corning succeeds through sustained investment in R&D, more than 160 years of materials science and process engineering knowledge, and a distinctive collaborative culture.

Corning’s Manufacturing, Technology and Engineering division (MTE) is recognized as the leader in engineering excellence & innovative manufacturing technologies by providing diverse skills to Corning’s existing & emerging businesses.

We anticipate & provide timely, valued, leading edge manufacturing technologies and engineering expertise. We partner with Corning’s businesses and the Science & Technology division. Together we create and sustain Corning’s manufacturing as a differential advantage.

Scope of Position:

- Support CET with the development and integration of x-ray CT in manufacturing for the inspection of GPF plug depth and quality
- Develop x-ray CT technology for applications for which other methods (optical, IR, acoustic, ultrasonic) are less suitable, for example inspection of soot blanks, interior structures of cables, etc.
- Project management and leadership

Day to Day Responsibilities:

- Consult with internal customers to assess and forecast project needs.
• Write detailed project scope and requirements documents, develop project plans and roadmaps. Develop measurement and inspection methods and systems; specifically x-ray CT inspection equipment, for an industrial environment.

• Work in lab and plant environments in various roles, individually, as a project team member, and as a project leader to develop hardware, software, tools, and techniques for measurement and inspection purposes, from experimental/proof of concept to robust systems for product development and pilot production.

Travel Requirements:

• This position will likely require frequent and extended stays at CET facilities/plants in Germany and possibly other locations for equipment development & installation as well as process development.

Hours of work/work schedule/flex-time:

• As required for project, typically 40 hrs. /wk. 8-5.

Required Education & Experience:

• Ph.D. – Electrical Engineering, Engineering Physics, Physics, Geology, or equivalent + 10 years or more of experience
• MS – Electrical Engineering, Engineering Physics, Physics, Geology, or equivalent + 15 years or more of experience

Required Skills:

• Expertise with industrial x-ray CT equipment and vendors, experience with using x-ray CT in an industrial environment
• X-ray CT theory and practice
• X-ray analysis of density, porosity, and other material variables
• Experience with 3D image analysis using Avizo, ImagePro, VGStudio Max, or equivalent
• Measurement and inspection system development
• Statistics, data analytics
• Project leadership and management
• Process development
• Experimental planning, documentation, and reporting
• Systems engineering and systems integration

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Desired Skills:
Additional areas of expertise in inspection, for example:

- Vision system development
- Optical and laser measurements, optical setups and alignment
- IR, THz, microwave imaging
- Acoustic and ultrasonic testing
- Non-destructive testing
- Optical design
- Motion systems design and control
- Data management, data base design
- Software development: VisualStudio.NET, C/C++, ASP.NET, LabView, or equivalent
- Process controls, automation (PLC)
- Modeling
- Laser processing
- Glass/ceramics science, materials science
- Mechanical design
- Language skills: German

Soft Skills:

- Able to work in various roles, independently, as a team member, and as a team leader
- Familiarity with matrix organizations and management structure
- Strategic leadership and execution
- Able to present and sell concepts to internal customers (strong presentation skills)
- Able to create and convey a vision
- Able to interact effectively with customers and staff (strong interpersonal skills)
- Creative problem-solving

EOE/AA including Veterans and Disabled.
IF YOU ARE INTERESTED IN THIS OPPORTUNITY, PLEASE FEEL FREE TO CONTACT DAVID WATKINS AT 716-688-6751 OR WATKINS@CORNING.COM