



**Title:** Process Simulation Engineer – Injection Molding

**Job Number:** 32323

**Location:** Corning, NY – 14830 (Sullivan Park)

Odds are that the email you read this morning travelled over Corning Optical Fiber; the smartphone you used had a Corning cover lens; and the vehicle you took to work had cleaner emissions because of a Corning catalytic substrate.

We are seeking out dedicated scientists who strive to see their research make a difference. If you have a passionate belief in the power of innovation to change the world; if you rate your own success by how many people are touched by your research; and if you are up to the challenge of doing world-class science to make real, profitable advanced materials, then Corning is the place for you.

#### Scope of Position

- In this role as a Process Simulation Engineer, you are responsible for advancing our understanding of the injection molding processes for COC and CLS businesses. You need a strong foundation in fluid mechanics, viscous flow and a deep knowledge in numerical modeling. You will also need excellent communication and interpersonal skills for working with globally distributed researchers, engineers in our commercial organizations, and customers.

#### Day to Day Responsibilities

- Participate in technical interaction with process and design engineers to understand their requirements.
- Use modeling to help understand the performance of existing and proposed processes and designs, and to interpret the data from experiments.
- Translate the product requirements to processes and geometry design requirements
- Develop new modeling tools and capabilities as needed. Collaborate with experimentalists to verify models
- From time to time, lead small technical teams in performing the preceding

#### Travel Requirements

- Flexibility required as there is occasional domestic and international travel expected including travels to Asia and Europe. Our expected travel time 10%.

#### Hours of Work

- We typically work 40 hours per week but great flexibility required given the globally dispersed nature of the team.

#### Required Education

- We require a Ph.D. in Chemical or Mechanical Engineering

### Required Area of Experiences

- Proven track record of solving a variety of difficult technology problems
- Experience working in an industrial research facility encompassing all stages of innovation
- Proven ability to work on multiple projects at a time
- Demonstrated organizational experience working across multiple cultures and on a globally dispersed and diverse team
- Ability to provide technical mentorship to small teams of high performing scientists

### Required Skills

- Full proficiency in modeling the injection molding process
- High level of expertise in CFD and heat transfer as well as in Polymer material behaviors
- Experience in programming language such as C++, FORTRAN, or Python
- Familiarity with commercial CFD and/or FEA software's such as Moldflow, Moldex3D, Fluent, Polyflow or Comsol
- Experience in experiments

### Desired Skills

- Minimum 2 years of work experiences in relevant field preferred
- Experience with process and product engineering
- Ability to effectively influence technical decisions
- Ability to lead product performance data evaluations, experiments and data analysis
- Skilled at conducting and analyzing product performance experiments using; MEE, statistical DOE, 6 sigma DMAIC and others

### Soft Skills

- Do you have the ability to influence technical direction via communication and relationship from a remote location?
- Are you an effective leader with exceptional organization, and planning skills and the ability to handle ambiguity, changing priorities and changing requirements?
- Have you successfully been able to solve problems on product or process related issues?
- Well-developed skills in working across multiple cultures and on a globally dispersed and diverse team - Does this sound like you?

We prohibit discrimination on the basis of race, color, gender, age, religion, national origin, sexual orientation, gender identity or expression, disability, or veteran status or any other legally protected status.

This position does support immigration sponsorship