

JOB OPENING

Photoresist Chemistry Simulation and Modeling Engineer

Inpria Corporation, a venture-backed electronic materials startup, has an immediate opening for a Photoresist Chemistry Simulation and Modeling Engineer based in Corvallis, OR. We are seeking an exceptional candidate to join our R&D team in modeling and developing industry leading metal-oxide photoresists. Successful candidates will be responsible for developing, refining, and optimizing chemical resist models, as well as communicating computational results and methodologies. The ideal candidate will have a strong physical science background with demonstrated experience in chemical kinetics simulation and software, programming, and computational modeling.

Responsibilities

- Design and execute simulations of stochastic chemical reaction kinetics, photolithographic processes, and molecular properties.
- Interface with chemistry and engineering teams to:
 - Develop and test numeric models for all aspects of resist chemistry and photolithography
 - Propose and validate model-based chemical and process optimizations
 - Define appropriate data sets and design experiments to feed model development
 - Assimilate new chemical concepts and results into existing computational frameworks
- Interface with external partners on simulation development, data collection, and computation.

Key Qualifications

- Ph.D. or MS in Chemistry, Materials Science, Engineering, Physics, Biochemistry, Mathematics, Computer Science or equivalent experience.

- Extensive computational modeling and programming skills and experience
- Experience with chemical kinetics simulation, molecular modeling, and relevant software strongly preferred
- Photolithography simulation and modeling software knowledge a bonus
- Active and effective verbal and written communication skills
- Ability to work in a fast-paced team environment
- Well organized, enthusiastic, flexible, self-motivated, and eager to learn

Compensation and Benefits

Inpria offers competitive compensation and an excellent benefits package that includes stock options.

About Inpria

Inpria Corporation is a pioneer in high-performance inorganic thin-films for nanoscale patterning. Inpria's patented photo-condensable molecular oxides offer customers the unique ability to deposit – directly from solution – atomically smooth, intrinsically dense, and directly photo-patternable metal oxide films enabling industry-leading performance with simplified processing. Working together with a global network of partners, Inpria is creating a new class of electronic materials.

Contact

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