



Position: Nanomaterials Engineer / Material Engineer

Target start date: March 1st, 2022

Iris Light's mission is to enable ubiquitous access to applications of light ranging from personal health, environmental monitoring, improved connectivity, and beyond. To realize this vision, we are pioneering a new class of laser to accelerate growth of the silicon photonics industry. Our solution combines cutting-edge nanomaterials with printed electronics to address the industry's growing need for broad spectral coverage (more colors lead to more markets). Iris Light is an early-stage spin-out of Argonne National Lab and Northwestern University currently funded by private and government capital.

What you'll do

As a Nanomaterials Engineer you will lead the development of nanomaterial photonic inks forming the gain medium of our core laser technology. Your advances will be immediately implemented into photonic devices in close collaboration with your multi-disciplinary engineering teammates.

We invite you to join our team if you:

- enjoy teamwork, seek immediate impact, and growth with a rapidly evolving company,
- proactively give constructive feedback and make the case for resources critical to your team's mission,
- are excited to take technology from R&D prototype to market, and
- can work with us in person Chicago, IL with US work authorization.

Key Responsibilities

- Nanomaterial synthesis and conversion into photonic inks
- Characterization of the electrical, optical, and chemical properties of photonic inks
- Printing and sintering of printed opto-electronics (we can train you on this)
- Generate reports for internal deliverables and external customers
- Technical contributions to new funding opportunities

Qualifications

- M.S. (Ph.D. preferred) in materials science, materials engineering, or related field
- 5+ years of materials synthesis and characterization experience
- 2+ years of solvent processing, deposition, and characterization experience
- Experience with measuring electrical, optical, and chemical properties (e.g. mobility, dopant density, XRD, XPS, conductivity/resistivity, IV measurements, etc.)
- Experience with handling air sensitive materials with gloveboxes and Schlenk lines
- Ability to build out new lab spaces
- Effective communicator, collaborator, and project leader

Ideal Qualifications

- Experience with ink printing technologies such as inkjet and sintering techniques
- Knowledge of two-dimensional materials and hybrid integration into photonic devices
- Experience with chemical vapor transport and related techniques
- Proficient in Python or similar programs for scientific analysis and lab automation

Contact Chad (HR@irisLightTech.com) with your resume, a brief note on why you want to join the Iris Light team, and the title "Nanomaterial photonic ink engineer" in the header to apply. Please note in the body of your email which work authorization you have (U.S. citizen, permanent residence, OPT, existing visa, etc.) Unfortunately, we cannot support visa applications.

We encourage candidates from underrepresented backgrounds to apply to strengthen our team.