



**Position:        Nanomaterials Engineer**

Iris Light is an early-stage startup developing color versatile lasers for silicon photonics. Our laser solution unifies the best of silicon photonics, nanomaterials, and printed electronics to address the growing need for broad spectral coverage required to scale the entire industry. We are a spin-out of Argonne National Lab and Northwestern University currently funded by private and government capital.

**What you'll do**

We are currently looking for a Nanomaterials Engineer to lead the development of photonic inks that form the gain medium of our novel laser technology. Your role entails working in close collaboration with the photonics engineering team to iterate and create meaningful results. Target start date: April 2021.

We invite you to join our team if you:

- Enjoy teamwork, seek immediate impact, and want to grow with a rapidly evolving company,
- Proactively give constructive feedback and ask 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 Chicago, Illinois with US work authorization and are open to relocation

**Key Responsibilities**

- Nanomaterial synthesis and conversion into photonic inks
- Characterization of the chemical, electrical, and optical 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
- Electrical, thermal, and chemical characterization techniques (e.g., dopant characterization, XRD, XPS, Hall measurements, conductivity/resistivity, and related, LIV measurements, etc.)
- Fabrication experience (e.g., lithography, metal deposition, devices, etc.)
- Ability to build out new lab spaces
- Proficient in Python or similar programs for scientific analysis
- Effective communicator, collaborator, and project leader

**Ideal Qualifications**

- Experience with ink printing technologies such as inkjet, aerosol jet, and sintering techniques
- Experience with chemical vapor transport and related techniques
- Knowledge of two-dimensional materials and hybrid integration into photonic devices

The Iris Light solution combines diverse approaches from unique disciplines to solve a long outstanding problem. To build on this strength, we encourage candidates from underrepresented backgrounds to apply. Our team is hiring multiple candidates in photonics and materials science and we encourage you to share this and related postings with your colleagues.

**Contact Ellie Price ([HR@irisLightTech.com](mailto:HR@irisLightTech.com)) with your resume, a brief note, and the title "Nanomaterial photonic ink engineer" in your email header to apply.**