



Heliotrope Photonics - R&D Internship

About us:

Heliotrope Photonics is an early-stage solar startup founded on research at New York University. We are developing an innovative solar coating technology designed to enhance solar panel efficiency by transforming sunlight. Our mission is to drive solar adoption and accelerate the transition toward a sustainable future. Based at Greentown Labs in Somerville, MA, we're building the next step in decreasing costs and making solar energy more competitive against other electricity sources.

Internship Description:

We are seeking a driven and hands-on engineering intern to join our team and contribute to the development of our solar coating technology. This role will give you direct experience in lab-based R&D and exposure to the challenges and excitement of working at a deep-tech energy startup. You will:

- Assist in fabricating and testing solar prototypes for performance and stability
- Help set up lab spaces, operate equipment, and collaborate with external lab partners
- Perform soldering and basic electrical assembly for solar device prototyping
- Document experimental procedures, results, and recommendations for process improvements

Ideal Candidate Qualifications:

- Currently pursuing (or recently completed) a Bachelor's or Master's in Materials Science, Electrical Engineering, Physics, Mechanical Engineering, or a related field
- Experience with soldering, basic electronics, or solar module assembly
- Familiarity with solar device characterization techniques (e.g., IV curves, EQE) is a plus
- Strong problem-solving skills and willingness to learn new experimental techniques
- Comfortable working independently and in a small, fast-paced team environment

Internship Details:

Location: Somerville/Boston, MA area (in-person lab work required)

Duration: 10–12 weeks

Compensation: \$25/hour

Start date: Flexible, with preference for early Fall 2025

If you're passionate about solar energy innovation and want hands-on experience shaping the future of renewable technology, we'd love to hear from you! Please send your CV and a brief cover letter to minh@heliotropephotonics.com.