

Coating Technician – Device Fabrication

Are you detail-oriented and passionate about precision in hands-on lab work? Join our team as a **Coating Technician**, where you'll be responsible for executing thin-film deposition processes that are critical to the performance and consistency of our perovskite solar cells. Your work will directly support our research and development efforts by ensuring all coating steps are carried out with high fidelity, following Standard Operating Procedures (SOPs) and contributing to the quality and reproducibility of our devices.

Key Responsibilities

Execute coating processes for thin-film device layers with high consistency, ensuring strict adherence to SOPs and contributing to overall fabrication quality and throughput. This role will entail a non-traditional work week of Wednesday - Sunday. In this role you will:

- Perform solution-based thin-film coatings (e.g., slot-die, blade coating) on substrates using defined SOPs.
- Prepare materials, substrates, and equipment for daily coating operations.
- Monitor and document process parameters and observations to ensure consistency and traceability.
- Inspect coated films visually and/or using tools (e.g., photoluminescence, microscopes) for quality control.
- Handle samples carefully to minimize contamination and damage during and after coating.
- Report any deviations, equipment issues, or material inconsistencies to the engineering team.
- Support lab cleanliness, equipment maintenance, and material inventory tracking.
- Assist in implementing process improvements by providing feedback on SOPs and daily execution challenges.

Key Performance Indicators (KPIs)

- **SOP Compliance** – Adherence to documented protocols and process specifications.
- **Film Quality** – Visual uniformity, absence of defects, and consistent thickness.
- **Reproducibility** – Low variation between coating runs.
- **Throughput** – Number of samples coated per shift without quality compromise.
- **Team Communication** – Timely and clear reporting of issues and progress.

Qualifications & Skills

Education & Experience

- Prior lab or cleanroom experience in a technical or technician role.
- Associate degree or technical diploma in a relevant field (Materials Science, Engineering Technology, Chemistry, etc.) or equivalent hands-on experience.

Technical Skills

- Familiarity with lab protocols, handling of chemicals, and working with precision equipment.
- Basic understanding of thin-film processes is a plus but not required.
- Comfortable following detailed instructions and working in a structured, process-driven environment.

Soft Skills

- Attention to detail, reliability, and good documentation practices.
- Proactive communicator and team player.

Diversity & Inclusion

At Rayleigh, we know that diversity makes a strong team. We encourage all qualified applicants to apply for this position, and we will never discriminate against race, ethnicity, gender identity, gender expression, sexual orientation, disability, religion, marital status or family status. Instead, we work to celebrate the things that make us unique and create an inclusive environment for all employees.

Don't meet all the requirements outlined above but still find yourself excited about this position and Rayleigh's mission? If you believe that you have the skills and experience to excel in this role, we would love to see your application!

To apply

Submit your resume and cover letter in one PDF file [here](#). We are unable to accept applications in any other document format.