

Job Title: Senior Scientist (Thin-Film R&D)
Job Types: Full-time, Part-time, contract, consulting (all roles)
Location: Rochester, NY
Start Date: Immediately
Apply: send resume to careers@andluca.com



Interested in joining a fast-growing optoelectronics company composed of leading scientists and product designers?

Andluca is seeking a Senior Scientist with extensive experience researching and developing optoelectronic thin-film technologies. You will work within a team of scientists and engineers to rapidly establish structure-property relationships between coating architecture and morphology and optoelectronic device performance. Your ideas and ownership of the coating process will be key for developing products for validation and field demonstration. This position is a rare opportunity to join a strong scientific and engineering team growing into a leading advanced materials company. This position is full-time, based in Rochester, NY.

Scope of Position:

- (1) Provide deep optoelectronic thin-film expertise for research & development projects related to solution-processed, roll-to-roll, extrusion, and/or vacuum deposition processes. Projects can range from early stage, exploratory R&D to later-stage thin-film manufacturing and equipment design.
- (2) Provide scientific leadership in a laboratory setting, with optoelectronic thin-film fabrication and characterization equipment, in collaboration with chemistry team members.
- (3) Work collaboratively with industry partners to achieve performance metrics in thin-film manufacturing.

Duties and Responsibilities:

- Serves as a technical subject matter expert for optical thin film coating processes.
- Assists in the transfer of optical coating process technologies from R&D to production and equipment into production.
- Creates and improves documentation for the manufacture of optical components.
- Maintains knowledge of current state-of-the-art advanced materials and thin-film development and production R&D processes and best practices.
- Oversees the transition of thin-film devices from R&D to Pilot Line Production.
- Conducts process optimization to improve cost, output, yield & quality.
- Ensures quality standards and specifications of thin-films through testing and analysis of results.
- Provides day to day technical support to scientific and engineering team.

Skills:

- (1) Expertise & experience with thin-film manufacturing coating formulation, roll-to-roll coating technologies (ex. slot die, blade coating, etc.) with experience at the laboratory and pilot level;
- (2) Knowledge of common industrial processes and testing protocols for coatings;
- (3) Ability to translate early-stage customer needs/wants into technology and product specifications;
- (4) Thin-film coating and characterization understanding and competencies;
- (5) Effective written, and verbal communication/presentation skills;

(6) Commitment to drive for results with minimal supervision.

Qualifications:

- Doctorate degree in Chemical Engineering, Materials Science, or related field preferred;
- Experience with optical thin film coatings, roll-to-roll manufacturing;
- Experience with vacuum technology desirable;
- Employer and/or character references.

Compensation: Competitive salary, and stock option grant(s), commensurate with experience.

Benefits: Medical, Dental, Vision, Paid Time Off, Relocation Pay, Long-term and Short-term Disability.

Equal Opportunity/Affirmative Action Employer

About Andluca Technologies:

Andluca Technologies is an NSF-backed Princeton spin-out that designs transparent, thin-film power sources that convert ultraviolet light into useful energy at the point of use. These flexible power sources can conform to any surface and disappear into their environment to enable discreet, wireless operation of smart windows and IoT devices. Beyond buildings, our technologies are unlocking new functionalities in the automobile, aviation, military, eyewear, and medical sectors. Andluca is also backed by NextCorps Luminare, who has invested \$500K in Andluca and supports leading optics, photonics, and imaging companies. Through grant programs (NSF Phase I/II and others) and private investment we have raised more than \$2.2M.

Our culture is first and foremost built upon stewarding the company, our environment, and investor's money. We value a humility that no task is beneath any employee. We make room for disagreement, when necessary, while treating each other with the utmost respect. We are looking for hardworking and dependable employees who have a knack for being able to look around corners for potential pitfalls. We have to stay flexible and adaptable in the fast-changing world of a growing startup.