



Tandem PV
Capital-efficient, low-cost solar
www.tandempv.com

Thin-film Solar Process Engineer / Scientist (Santa Clara, CA)

Tandem PV is a leading developer of high-efficiency thin-film solar cells and modules using metal-halide perovskites in tandem configurations. TPV is scaling perovskite technology that combines exceptional product performance and durability. The company has demonstrated efficient durable cells, monolithic multi-cell submodules and packaged modules using scalable low-cost processing on R&D size samples, and is transitioning to product-size pilot development by expanding its team, acquiring production-style tools, and building out a pilot manufacturing facility. We are looking for a **Thin-film Solar Process Engineer / Scientist** to improve our technology at the R&D stage as we take the next steps to commercial products.

Role / Responsibilities

- Process thin-film semiconducting materials using solvent-based techniques such as spin-coating, blade-coating, slot-die coating, and spray coating
- Process thin-film semiconducting materials using physical vapor deposition techniques such as sputtering and thermal evaporation
- Optimize and troubleshoot deposition processes
- Perform thin-film, semiconductor, and solar photovoltaic metrology and analyze and interpret results
- Develop project plans and experimental designs

Qualifications

- Require previous relevant academic or industry experience with thin-film processing
- Desire previous experience with thin-film solar processing and metrology
- Desire experience in data analytics or computer-hardware communication automation (e.g. Python, Labview, Igor, or similar)
- Desire experience with operating / trouble-shooting / maintaining processing tools
- Hands-on lab skills and knowledge of safety in a wet chemistry environment and safe use of hazardous materials
- Imaginative and systematic approaches to problem solving
- Excellent verbal and written communication skills
- Require university degree in Engineering, Science, Chemistry, or related fields. Prefer advanced degree in relevant field
- Applicants must be currently authorized to work in the United States for any employer

Who we are:

- Tandem PV aims to use perovskite/silicon mechanically-stacked tandems to upgrade silicon solar panels, sharply decreasing installed systems costs, significantly increasing module manufacturing profit margins, and opening up vast new solar markets in the US and worldwide.
- TPV was co-founded by Stanford PhDs Colin Bailie and Chris Eberspacher; is advised by industry experts from Corning, First Solar, Vivint Solar, and Kateeva; has raised \$3M in private funding; and has been awarded \$8M in R&D grants from the Department of Energy, California Energy Commission, etc.
- TPV is raising >\$10M Series A equity investment for Pilot production engineering, tools and facilities
- Tandem PV is a diverse, equal opportunity employer. All qualified applicants are encouraged to apply.
- Salary, benefits and equity upside commensurate with experience and with Silicon Valley advanced materials start-up culture.

Timeline: Tandem PV is looking to fill this position immediately. Contact info@tandempv.com to learn more