



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

Chief Engineer (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 **Chief Engineer** to define, develop, and operate our pilot facility as we take the next step to commercial tandem module products.

Role / Responsibilities

- Hire & manage an equipment, facilities and Pilot operations team
- Apply insight and experience with perovskites and/or related materials to develop scalable, low-cost processes & tools, including scaling existing materials, processes and device designs from R&D substrate sizes to commercial module product substrate sizes
- Utilize an array of materials and processes including high-speed ink printing, dynamic drying / annealing, solution deposition, physical vapor deposition, high-precision patterning, etc.
- Develop tool parameters and work with equipment suppliers from varied fields including thin-film solar deposition by solution-processing & by physical vapor deposition, and silicon solar module assembly
- Design Pilot facility layout and equipment flow. Design & build facilities infrastructure.
- Integrate equipment into pilot line. Develop process feedback metrology. Develop process controls.
- Work directly with executive management team

Qualifications

- Require relevant industry experience with defining processing sequences and related measurement & control methods, defining tool specifications, designing & outfitting pilot / R&D facilities, procuring / integrating toolsets, and managing suppliers & vendors
- Desire experience in solar or similar thin-film technologies. Desire prior experience with perovskite PV
- Experience developing and managing processes, procedures and operations
- Previous experience with managing people across technical disciplines
- Excellent verbal and written communication skills
- University degree required in Engineering, Science, Chemistry, or related fields
- 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