

Postdoctoral Researcher Position Available



The University of Tulsa Department of Mechanical Engineering is searching for a postdoctoral researcher to support our recently awarded U.S. Department of Energy SunShot award for GEN3 CSP Collectors (<https://www.energy.gov/eere/solar/generation-3-concentrating-solar-power-systems-gen3-csp>). TU will develop a comprehensive particle and substrate durability model that will enable improved understanding of the performance of high-temperature components for the particle-based pathway. The team will advance existing research capabilities in erosion, corrosion, fracture mechanics, macro- and micro-scale materials characterization, and thermal and optical property characterization. The results will be used to develop a broad understanding of mechanical durability that can be used to determine component lifetime and performance degradation models.

Responsibilities Include:

- Conducting experimental and computational research as it relates to erosion, corrosion, materials characterization for GEN3 solar thermal systems. This includes developing lifetime durability models.
- Overseeing graduate student research as it relates to project goals and meeting project milestones and go/no-go points.
- Working with a diverse team of co-PIs, technicians, and graduate students.
- Writing quarterly reports and creating quarterly technical presentations.

Minimum Qualifications:

Doctoral degree in engineering field, appropriate experience, and expertise. Strong project management skills and a superior publication record.

Application:

Please send your CV and cover letter to mwkeller@utulsa.edu. This is a 1-year position with the possibility of renewal.