Professor Sarah Stewart’s group in the Department of Earth and Planetary Sciences seeks a post-doctoral researcher to conduct experimental work in the department’s Shock Compression Lab. The lab’s primary research themes focus on understanding the role of material properties in governing the outcome of large impact events, including the physical and chemical processes that shape planetary formation and early Earth evolution and habitability.

The successful candidate will conduct shock physics experiments using the laboratory’s two light gas guns and will contribute to diagnostic development for in-situ spectroscopy and time-resolved measurements of thermodynamic properties in shock-compressed materials. The candidate may also participate in ongoing collaborations at external facilities or through the group’s participation in the UC Center for Frontiers in High Energy Density Science.

**Minimum qualifications**: A PhD in physics, geology, chemistry, materials science or a related field is required.

**Desired qualifications**: Prior experience on similar experimental platforms is preferred but not required. Prior experience with high pressure-temperature thermodynamics and equation-of-state studies and/or experience with optical systems, spectroscopic data or pyrometry would be particularly beneficial, as would experience designing and conducting high-pressure experiments. Candidates should have demonstrated ability to work independently within their areas of expertise; however, experimental and computational support is available, and collaboration in a group setting is expected to support ongoing research projects.

**To apply**: The position is available immediately and will remain open until filled. Interested candidates should contact Dr. Dylan Spaulding (dkspaulding@ucdavis.edu) and include a CV and brief statement of research interests.

Further information about ongoing research initiatives can be found at [http://sarahstewart.net](http://sarahstewart.net) and [http://geology.ucdavis.edu](http://geology.ucdavis.edu)

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