

## Two Postdoc Positions at UC Berkeley in Planetary Science and Physics at Extreme Conditions

Two postdoctoral positions in the fields of planetary science and physics at extreme conditions are to be filled in the group of Prof. B. Militzer in the Department of Earth and Planetary Science at the University of California, Berkeley (<http://militzer.berkeley.edu>). The planetary work is focused on modeling the interiors of the giant planets Jupiter and Saturn. This work is supported by NASA missions Juno and Cassini. A new suite of interior models will be constructed in order to provide a more detailed interpretation of the recent gravity measurements of both missions. Commonalities and differences between the interiors of Jupiter and Saturn are to be analyzed.

The Physics at Extreme Conditions project is focused on first-principles computer simulations of materials at megabar pressures. Path integral Monte Carlo and density functional molecular dynamics simulations will be performed to characterize the equation of state, melting, phase relations and to compare with ongoing experimental work. This project is supported by grants from DOE, NNSA, and the University of California.

**Basic qualifications:** At the time of application, the basic minimum qualification is the completion of all PhD degree requirements except the dissertation.

**Additional Required Qualifications:** 1) A PhD or equivalent degree in planetary science, physics, astrophysics, geophysics, or related fields is required by the start date. 2) A demonstrated track record of published papers.

**Salary and Benefits:** Salary will be commensurate with experience and qualifications. The department is interested in candidates who will contribute to diversity and equal opportunity in higher education through their work. UC Berkeley offers excellent health and welfare packages. It also has a number of policies and programs in place to support employees as they balance work and family. Information on available plans and eligibility can be found at: <https://clients.garnett-powers.com/pd/uc/>.

To apply: Please submit applications electronically at <https://jobregister.aas.org/ad/b0aecd5d>

Applicants should submit a Curriculum Vitae including publication list and explain in a 1-2 page statement of their current and future research interests how they plan to contribute to either or both of the two described research projects. They should highlight two of their publications that are most closely related.

**Applications will be considered starting from May 10, 2018** until the positions have been filled. The positions are for two years starting from August 22, 2018.

Applicants should also request three letters of reference. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (<http://apo.berkeley.edu/evalltr.html>) prior to submitting their letters.

For questions, please contact Jessica Horning <[jessicahorning@berkeley.edu](mailto:jessicahorning@berkeley.edu)>

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>.