

Project Scientist - University of California, Berkeley - Department of Physics

The Department of Physics at the University of California, Berkeley seeks applications for a full-time project scientist position in the area of computational cosmology with an expected start date in summer or fall 2018.

The research scientist will work on the development and deployment of the Simons Observatory (SO) data reduction pipeline. SO is a Cosmic Microwave Background (CMB) experiment that will deploy many tens of thousands of detectors on multiple telescopes in the high Atacama Desert in Chile to gather the largest and most sensitive CMB dataset to date. From Chile, the data will be transferred to the Department of Energy's National Energy Research Scientific Computing (NERSC) Center at Lawrence Berkeley National Laboratory for reduction and analysis.

This position is part of the overall SO data management team, which focuses on the reduction of the raw telescope data to well-characterized maps for science exploitation. Specifically, it will involve working with the Berkeley SO Data team to develop and deploy and exercise a computational framework capable of handling the SO data volume and complexity on state-of-the-art High Performance and High Throughput Computing facilities, including NERSC and XSEDE. The incumbent will work collaboratively as part of a distributed team and project schedule, including giving regular oral and written presentations.

Basic qualifications:

Ph.D. or equivalent degree in Physics, Astrophysics, or Astronomy is required at the time of application.

Additional qualifications:

(Required by the start date of the job)

- Fluency in C++, Python and Unix scripting.
- Experience with software version control systems such as Git.
- Experience with High Performance Computing including message passing and threading tools such as MPI and OpenMP and/or High Throughput Computing including job scheduling tools such as HTCondor.

Preferred qualifications:

- Experience with Cosmic Microwave Background data analysis, especially with time-domain data.
- Experience working in a distributed software development team.

Salary and Benefits:

Salary range: \$55,700-\$102,500 (full-time, 100% rate). Starting salary will commensurate with experience. For information on UC benefits, please visit: <http://hr.berkeley.edu/compensation-benefits/benefits>

To apply, please go to the following link: <https://aprecruit.berkeley.edu/apply/JPF01739> Applicants should submit a cover letter, curriculum vitae, and provide contact information for three references, who may be asked to write letters of recommendation. Optional document requirements: Statement of Research. The position will remain open until filled.

Please direct questions to Julian Borrill at borrill@berkeley.edu For inquiries of an administrative nature, contact Christy Welden at cwelden@berkeley.edu

Should letters be requested, 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.

Diversity statement:

The department is interested in candidates who will contribute to diversity and equal opportunity in higher education through their work.

Family friendly statement:

UC Berkeley has an excellent benefits package as well as a number of policies and programs to support employees as they balance work and family.

The University of California is an Equal Opportunity/Affirmative Action Employer. It is the policy of the University not to engage in discrimination against or harassment of any person employed or seeking employment with the University of California on the basis of race, color, national origin, religion, sex, gender, gender expression, gender identity, pregnancy, physical or mental disability, medical condition (cancer-related or genetic characteristics), genetic information (including family medical history), ancestry, marital status, age, sexual orientation, citizenship, or service in the uniformed services. For the complete University of California nondiscrimination and affirmative action policy see: <https://policy.ucop.edu/doc/4000376/DiscriminationHarassmentAffirmAction>