About Berkeley
The University of California, Berkeley, is one of the world’s most iconic teaching and research institutions. Since 1868, Berkeley has forged a reputation for excellence, generating unparalleled intellectual, economic and social value in California, the United States and the world. Berkeley’s culture of openness, freedom and acceptance—academic and artistic, political and cultural—make it a very special place for students, faculty and staff.

Berkeley is committed to hiring and developing staff who want to work in a high performing culture that supports the outstanding work of our faculty and students. In deciding whether to apply for a staff position at Berkeley, candidates are strongly encouraged to consider the alignment of the Berkeley Workplace Culture with their potential for success at \[http://berkeley.edu/why-berkeley.html\].

Departmental Overview
The AMP/Lab was awarded a five-year $1M NSF “Expeditions in Computing” program grant. The director is Michael Franklin, co-principal investigators (co-PIs) are Alex Beutel, Scott Shenker and Ion Stoica. The founding group initially included eight faculty members and dozens of Ph.D. students who were backed by 18 industry titans, including Google, Amazon Web Services and SAP. AMP researchers expect to develop powerful new tools to help extract key information from Big Data, a term for the dizzying array of measurements, images, audio, video, tweets, texts and more that has grown even larger, faster and more diverse.

The Defense Advanced Research Projects Agency (DARPA) XDATA project is developing an open source software library for big data to help increase the impact of government investments. The Berkeley Data Analytics Stack (BDAS), comprised of systems like Apache Spark, is a crucial component of this DARPA library with numerous teams depending on our stack to power their applications.

This position requires the final candidate to successfully pass an E-Verify check. This position has been designated as sensitive and may require a Criminal Background Check. We reserve the right to make employment contingent upon successful completion of a Criminal Background Check.

Responsibilities

1. 50% Software development - including profiling and understanding existing software programs as well as the development of new software programs for DARPA.

2. 20% Work with DARPA teams during their software design process to help them build the best system for their particular application. Requires an understanding of distributed computing, Hadoop and the Berkeley Data Analytics Stack (BDAS). Training on the BDAS is available.

3. 10% Assist the DARPA operations team in the deployment of new or upgraded applications built on the Berkeley stack.

4. 10% Debug performance or correctness issues and relay findings to AMP/Lab engineering team and/or open-source community.

5. 10% Assist the DARPA operations team in the deployment of new or upgraded applications built on the Berkeley stack.

For the complete University of California nondiscrimination and affirmative action policy, see: \[http://policy.ucop.edu/doc/4000376/NondiscrimA\] and \[http://www1.eeoc.gov/employers/upload/eeoc_self_print_poster.pdf\]

To apply, visit the UC Berkeley Jobs website and keyword search for \[http://www.ucop.edu/policy/4000078/\] who want to work in a high performing culture that supports the outstanding work of our faculty and students.

A generous benefit package.

Accepting the challenge requires the candidate to: demonstrate problem solving skills.

Must be self-motivated, work independently or as part of a team, able to learn quickly, meet deadlines and demonstrate initiative.

1. Experience with the following is a plus:

   - Concurrency and synchronization
   - Fallacies of distributed computing
   - Common IPC/RPC methods and patterns
   - High availability and business continuity
   - Queuing patterns and pipeline design
   - Batch operations
   - Messaging systems and patterns
   - Solid OS / networking fundamentals
   - Optimization and troubleshooting
   - Familiarity with stateless RESTful services
   - Knowledge of distributed systems
   - Knowledge of complex data graph and ETL
   - Knowledge of common ETL packages / libraries
   - Familiarity with data warehousing concepts
   - Understanding of configuration management systems (e.g. Puppet, Chef) and concepts behind mass configuration

2. Background Check required.

Criminal Background Check

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E-Verify

This position requires the final candidate to successfully pass an E-Verify check.

To learn more information visit:

\[http://www.uscis.gov/portal/site/uscis/menuitem.eb1d4c2a3e5b9ac89243c6a7543f6d1a/?\]