

Post-Doctoral Position – Data Observation Network for Earth (DataONE)

The Data Observation Network for Earth (DataONE - <http://dataone.org>) is recruiting a **post-doctoral associate** to work with the **Provenance and Scientific Workflows** Working Group of DataONE. This is a full-time, 12-month position initially for one year, but renewable pending progress and availability of funds. Applications will be accepted starting immediately and will be accepted until the position is filled.

The Data Observation Network for Earth (DataONE; <http://dataone.org>) is poised to be the foundation of new innovative environmental science through a distributed framework and sustainable cyberinfrastructure that meets the needs of science and society for open, persistent, robust, and secure access to well-described and easily discovered Earth observational data. Supported by the U.S. National Science Foundation, DataONE will ensure the preservation and access to multi-scale, multi-discipline, and multi-national science data. DataONE seeks to transcend domain boundaries, making biological data available from genome to ecosystem and making environmental data available from atmospheric, ecological, hydrological, and other earth science sources. This broad disciplinary focus brings many challenges in the description, publication, discovery, and integration of datasets across multiple disciplines.

The post-doctoral researcher will work with an interdisciplinary team of researchers from across the country, and be an integral member of the DataONE Provenance and Scientific Workflows Working Group (ProvWG). The main thrust of the work is research and development of interoperable workflow provenance models. This includes: development and analysis of scientific use cases of provenance; study and comparison of existing and emerging models of provenance; research to develop effective and efficient methods for provenance capture, storage, and querying; and prototypical implementation of advanced provenance technologies in collaboration with the DataONE Core Cyberinfrastructure Team (CCIT).

Required Qualifications: PhD completed or near completion in Computer Science, Information Science, Earth/Environmental Science, or equivalent.

The successful candidate will have strong interest in data management technologies, for example, databases, workflow systems, or provenance management, and demonstrated excellent communication skills.

The successful candidate will be expected to engage in professional development training opportunities and seminars, and travel to Working Group meetings or to present work at professional conferences.

Preferred Qualifications: Interest in and experience with scientific workflows and provenance are a plus.

The post-doc will be mentored and supervised by the DataONE PI, Dr. William Michener (UNM, USA), DataONE/ProvWG leads Dr. Bertram Ludaescher (UC Davis, USA), and Dr. Paolo Missier (U Newcastle, UK). Interested candidates should send a CV, a brief statement of interest in this position, and a list 3 references and their contact information to both Bertram Ludaescher (ludaesch@ucdavis.edu) and Rebecca Koskela (Executive Director of DataONE; rkoskela@unm.edu), DataONE, University of New Mexico, 1312 Basehart Drive SE, MSC04 2815, Albuquerque, NM 87106. Inquiries for further information about the position are welcome. Salary and benefits for this position are competitive and commensurate with the applicant's qualifications and experience.