



Washington University in St. Louis

JAMES MCKELVEY SCHOOL OF ENGINEERING

Department of Energy, Environmental and Chemical Engineering

Postdoctoral positions at Washington University in St. Louis

Two postdoctoral scholar positions are available in Prof. Jian Wang's group in the Department of Energy, Environmental & Chemical Engineering at Washington University in St. Louis.

Position 1:

The research will focus on (1) the development of novel instruments for rapid measurements of aerosol size spectrum, hygroscopic growth, and mixing state onboard manned and unmanned aircraft, and (2) the processes that drive the cloud condensation nuclei spectrum and the interactions between aerosols and clouds using field observations.

The successful candidate is expected to have a background in aerosol research and strong experimental skills. Demonstrated commitment to publication of results and strong verbal and written communication skills are necessary. Previous experience with field measurements and demonstrated skills in complex data analysis and instrument development are highly desirable.

Position 2:

The research will focus on understanding aerosol processes and aerosol-cloud interactions in marine environment by combining WRF-Chem simulations and measurements from recent field campaigns. The successful candidate will have opportunities to collaborate with scientists at Pacific Northwest National Laboratory and Tsinghua University.

The successful candidate is expected to have a Ph.D. in atmospheric science, engineering, physics, chemistry, or related field and strong background in large-eddy or regional/global modeling of atmospheric aerosols and clouds. Familiarity with high-performance computing, demonstrated commitment to publication of results, strong verbal and written communication skills, and ability to work as part of a research team are required. Demonstrated experience in using the WRF-Chem model is highly desirable.

Review of applications begins immediately. Applications will be accepted until the positions are filled. The initial appointment will be one year, with the expectation of annual renewal for at least one year contingent upon satisfactory performance.

To apply, please send a single pdf file that includes a cover letter describing your research interest, a C.V., 2-3 first author paper reprints, and a list of 3 references to Prof. Jian Wang (jian@wustl.edu).