Postdoctoral Research Associate Position at Pacific Northwest National Laboratory

Atmospheric Chemistry/ Laboratory

Pacific Northwest NATIONAL LABORATORY

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Job Description:

The candidate will participate in chamber-based laboratory studies of the secondary organic aerosol (SOA) lifecycle. Experiments will focus on examining SOA formation mechanisms and aging, SOA optical properties, and black carbon optical properties. The candidate will be expected to conduct smog chamber experiments, collect and analyze data from a diverse range of instrumentation, including an AMS, PTR-MS, and SMPS, and publish results in peer-reviewed journals. The candidate will be expected to work closely with modelers to improve the representations of SOA in process and regional models. The candidate will also be expected to occasionally participate in DOE field campaigns.

The associate will join a team of scientists at PNNL performing research on:

- Linking land-surface, boundary layer, aerosol, and shallow clouds,
- Environmental conditions, wind shear, and aerosol effects on the lifecycle of deep convection, and
- Aerosol aging and its impact on optical and cloud-nucleating properties,

Qualifications:

Candidates must have received a Ph.D. in atmospheric science, chemistry, or physics from an accredited university. Hands-on laboratory experience is required and experience with flow tubes or environmental chambers and PTR-MS, AMS, or other mass spectrometry techniques is preferred.

For additional information, contact Dr. John Shilling (john.shilling@pnnl.gov). To apply for this position, please visit http://www.pnnl.gov/atmospheric/jobs.stm and look for position # 302227.