

National Aeronautics and
Space Administration

Ames Research Center
Thermal Protection Materials Branch
Moffett Field, CA 94035



Postdoctoral Positions in Computational Modeling of Energy Storage Materials at the NASA Ames Research Center

Multiple postdoctoral positions in computational material science for energy storage systems, e.g. batteries, supercapacitors, etc, are available at the NASA Ames Research Center. Ionic liquids, polymers, ceramics, etc. are under investigation. Candidates with expertise in one or more of the following areas will be considered: MD simulations, *ab initio* computations, computational high through-put screening, computational chemistry of electrolyte decomposition, computational electrochemistry, QSAR, etc. The appointment is jointly with Drs John Lawson and Charles Bauschlicher.

Computational materials science research at NASA Ames is directed towards multiscale modeling (*ab initio*, atomistic, continuum) of next generation materials for space and aeronautics applications. We have multi- disciplinary teams (chemists, physicists, material scientists) working on both experimental and computational issues.

The candidate should hold a doctoral degree in a relevant discipline, such as Materials Science, Mechanical Engineering, Chemistry, Physics, or Chemical Engineering before the commencement of the appointment. The ideal candidate will have a strong theoretical background as well as demonstrated expertise in computational modeling using standard software packages and also be proficient in scientific programming.

Interested persons should submit by email a CV including publication list and contact information for 2-3 references to John Lawson (John.W.Lawson@nasa.gov). Applications will be reviewed until the position is filled. **Applicants who are US citizens or permanent US residents will receive special consideration.** However, well-qualified foreign nationals are also encouraged to apply. **Only applicants currently residing in the US will be considered.** The position is initially for one year with extensions possible depending on the availability of funding.

The NASA Ames Research Center is located in the San Francisco Bay Area, California, in the heart of Silicon Valley, 10 miles from Stanford University and 40 miles from San Francisco.