Post-Doctoral Research Associate Position in
Photovoltaic Lifetime and Degradation Science

A Post-Doctoral Research Associate /Senior Research Associate position is available in the newly established VUV laboratory in the Department of Materials Science and Engineering at Case Western Reserve University, under the direction of Prof. Roger H. French. This optical materials science research focuses on solar radiation and environmental durability of photovoltaic materials, elements and systems. The research associate will help establish a facility for PV lifetime and degradation studies, including solar and environmental exposures and optical characterization techniques including UV/vis, FTIR and light scattering, and will develop quantitative mechanistic models for degradation processes in the bulk interfaces of PV components and systems. Preference will be given to individuals with experience in optical characterization and a demonstrated ability to lead a project, analyze and organize data, and write manuscripts.

Ph.D. degree required. Experience in photovoltaics, optical materials, optical spectroscopy, device characterization, reliability, and lifetime and degradation science is important. Experience in computational materials science, including CAD, optical raytracing, Maxwell’s Equation solvers, finite element analysis, thermomechanical and chemical reaction rate modeling is useful.

Applicants should send a cover letter which includes a brief description of research experience and interests, a curriculum vitae, and contact information for at least three references to:

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