Post-Doctoral Research Associate Position in

VUV Spectroscopy for van der Waals –London dispersion Interactions in Biomolecular and Inorganic Assembly

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 vacuum ultraviolet (VUV) reflectance spectroscopy using a samarium laser plasma light source to determine the VUV optical properties of materials for studies on long range, electrodynamic interactions in biomolecular and inorganic materials. The position is to help establish the VUV spectroscopy facility for electronic structure and optical property studies of materials and their vdW-Ld interactions. Preference will be given to individuals with experience in VUV spectroscopy and a demonstrated ability to lead a project, analyze and organize data, and write manuscripts.

Ph.D. degree required. Experience in ultrahigh vacuum techniques, optical materials, optical spectroscopy, and Nd:YAG, CO2 and other Class IV lasers is important. Knowledge of solid state physics and local density electronic structure calculations and computational materials science is useful. Experience in computational spectroscopy, including open source development in Java and C is desirable.

Applicants should send a curriculum vitae, a letter or email stating research interests, and contact information for at least three references to:

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