Army Research Lab
Aberdeen Proving Ground MD
Synthetic Chemist Postdoctoral Research

A highly motivated candidate is sought for a post-doctoral fellowship at the Army Research Lab providing synthetic support on materials research programs. Candidates should have a Ph.D. in Chemistry or a related discipline, and must be a US-citizen. Postdoctoral fellows will be coordinated through the Oak Ridge Institute for Science Education. The opportunity includes, but is not limited to the following:

Synthetic targets that may be encountered include small molecules such as monomers, ligands, and organo-catalysts that will likely be used in the preparation of functional, architecturally complex polymers. The ideal candidate will have a broad range of skills in organic and polymer chemistry including: multi-step organic synthesis with familiarity in air-free techniques; step-growth and chain-growth polymerizations including living polymerizations; NMR, FTIR, UV-Vis, SEC, DSC and TGA. In addition, the preferred candidate will also have some prior experience with mechanical testing (DMA, rheology, tensile testing) and/or advanced microscopy (SEM, TEM, confocal) but is not required.

Broadly speaking, the goal of the candidate's research will be the development and elucidation of structure-property relationships in an effort to improve material properties for a variety of military applications. This position offers substantial opportunities for publishing in peer-reviewed journals as well as conference travel. Candidates should have a Ph.D. in Chemistry or a related discipline, and must be a US-citizen. Postdoctoral fellows will be coordinated through the Oak Ridge Institute for Science Education.