Organic Synthesis and Smart Network Development

We are seeking a driven and highly creative individual as part of a cross-functional research team to develop novel organic molecules for use in polymeric networks. Specifically, the individual will design new molecules and reaction methodologies (green chemistry is desirable, but not required), conduct multi-step organic synthesis and purifications, characterize these molecules using a variety of analytical techniques (e.g. ^{1}H and ^{13}C, NMR, HR-MS, FT-IR, GPC), then use these molecules to form thermoplastic and thermosetting polymeric networks with stimuli-responsive / smart capabilities. The candidate will also be responsive for determining network thermal, mechanical, and surface properties. Applicants should hold a Ph.D. in Chemistry with experience in multi-step organic and/or polymer synthesis. The candidate should be self-motivated, able to work independently, and have excellent written and oral communication skills. Qualified candidates should contact Dr. Erick Iezzi at erick.iezzi@nrl.navy.mil. The Naval Research Laboratory is an Equal Opportunity Employer.

Keywords: Multi-step synthesis; Reaction methodology; Polymeric network; Stimuli-responsive; Smart; Green chemistry