

Position Opening
Member of Technical Staff - Polymer Physicist

ExxonMobil Research and Engineering Company has an immediate opening for a Polymer Physicist at its Corporate Strategic Research Laboratory located in Annandale, New Jersey.

The selected individual will be responsible for conducting original research in experimental polymer physics and material science, using advanced structural probes (e. g. x-ray, light, neutron scattering, microcopy, spectroscopy, fractionation) , rheological and/or mechanical property instruments (e. g., stress and strain rheometer, extensional rheometer, tensile testing). He/she will combine experiments with molecular theory and modeling from the molecular to macroscopic scales to "write-the-rules" of polymer, polymer blend, and polymer composite performance. This could include being able to understand and predict the effects of processing on polymer structure and morphology developments.

The ultimate goal is to be able to predict the performance of polymer products, blends and composites, from knowledge of their backbone structure, phase blending, self-assembled meso-structure, and solid state morphology.

Candidates should have the following qualifications:

- . A Ph.D. in Polymer Science, Physics, Materials Science, Chemical Engineering, or a similar field with expertise in the physics of polymers; postdoctoral or equivalent advanced experience is strongly preferred.
- . Demonstrated individual contribution to research in a results-oriented team environment.
- . A strong track record of external publications and presentations and a desire to publish and participate in external technical meetings.
- . Strong communication, organizational, and interpersonal skills.
- . Demonstrated expertise in the study of polymeric systems by rheology, scattering, or other techniques.

Special consideration will be given to candidates who also possess the following attributes:

- . Experience in the theory and/or modeling of polymeric systems.
- . Knowledge of polymerization or other applicable chemistries for polymers.
- . Strong knowledge in structural characterization of molecular and polymer materials by chemical, optical, spectroscopic, thermo-mechanical and other physical techniques.

ExxonMobil's Corporate Research Laboratory is a facility of over 200 scientists and engineers involved in fundamental and process-oriented research in diverse scientific disciplines related to ExxonMobil's Upstream, Downstream, Chemicals, and Corporate sectors. The Laboratory features excellent support and analytical facilities, an international staff, and is strongly integrated with the external scientific community. Its location in pastoral western New Jersey provides excellent public schools and convenient access to New York City and Philadelphia.

ExxonMobil offers an excellent working environment and a competitive compensation and benefits package. Please submit your resume with cover letter to our website at www.exxonmobil.com/ex and apply to Polymer Physicist

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