ExxonMobil Research and Engineering Company has immediate openings for scientists at all career stages in the Engineering Physics Section at its Corporate Strategic Research Laboratories located in Annandale, New Jersey. The Engineering Physics Section is a multidisciplinary group of scientists conducting fundamental research in physics and computational sciences pertaining to the needs of the energy industry with particular focus in the areas of granular physics, flow in porous media, wave propagation, solid-fluid interactions, and rock deformation and failure. This position requires demonstrated skills and experience in developing a deep conceptual understanding of physical phenomena based on real-world data. Working collaboratively with experimental and computational scientists, the successful candidate will be expected to become a leader in developing new scientific insights needed to capture key processes and parameters and to guide research directions addressing key technical needs in the energy industry.

The applicant should have a Ph.D. in Physics, Engineering, Geosciences, or a related field. Relevant areas of expertise include statistical and nonlinear physics, classical theory of fields, fluid dynamics, soft condensed matter physics, physical chemistry, geophysics, and rock/soil mechanics. Experience in multi-physics and/or multi-scale mathematical modeling is desirable. Excellent oral and written presentation skills, along with a strong record of publications and presentations, commensurate with career stage, are required. The ability of the candidate to grow into new science areas will be a critical characteristic, as will the ability to work across disciplines and organizations.

ExxonMobil’s Corporate Strategic Research (CSR) laboratory is a powerhouse in energy research focusing on fundamental science that can lead to technologies having a direct impact on solving our biggest energy challenges. Our facilities are centrally located in scenic Annandale, New Jersey, approximately one hour from both New York City and Philadelphia.

ExxonMobil offers an excellent working environment and a competitive compensation and benefits package. Please submit your cover letter, resume, a list of publications, and a minimum of three references, to our website (www.exxonmobil.com/ex) and search by key words “Theoretical Physicist.” Additional information about the position can be obtained directly through e-mail by contacting either Dr. Martin Lacasse <martin.lacasse@exxonmobil.com> or Dr. Deniz Ertas <deniz.ertas@exxonmobil.com> both at exxonmobil.com.

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