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. The Section is highly collaborative between experimentalists and theorists in conjunction with computational scientists. Successful candidates will be expected to become scientific leaders in creating and utilizing advanced computational techniques to develop the deep conceptual understanding of physical phenomena needed to address technical challenges in the energy industry.

The applicant should have a Ph.D. in Engineering, Applied Mathematics, Physics, Geosciences, or a related field. Candidates should have a solid background in fundamental physics, combined with a demonstrated interest in using modern modeling techniques for obtaining valuable physical insights at the characteristic or desired length scale(s). Experience with large-scale parallel algorithms and/or PDE-constrained optimization is desirable, as is an interest in rock/soil mechanics, granular media, composite materials, and wave phenomena. Experience in multi-physics and/or multi-scale computational 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 “Computational Scientist.” 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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