



OTTO H. YORK DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING
COMPUTATIONAL LABORATORY FOR POROUS MATERIALS

Ph.D. Position in Molecular Modeling of Nanoporous Materials and Confined Fluids



About the position: The Computational Laboratory for Porous Materials is seeking applicants for Ph.D. student position in chemical or materials engineering. The student will receive full financial support including stipend and coverage for the tuition. The candidate will be working in the group of **Prof. Gennady Gor** on one of the following projects:

- (1) Gas-adsorption by stimuli-responsive materials
- (2) Effect of confinement on thermodynamic properties of fluids
- (3) Condensation-induced restructuring of atmospheric soot particles
- (4) Molecular simulation of amino acids at mineral interfaces
- (5) Molecular modeling of organophosphorus compounds

An ideal candidate should:

- (1) Have strong motivation to pursue interdisciplinary theoretical and computational research
- (2) Have an M.S. degree in chemical engineering, materials science, physics, chemistry, etc., however outstanding candidates with a B.S. degree will also be considered
- (3) Be available to start in **September 2022**

How to apply: Initial applications should include the following: (1) Short cover letter (2) Curriculum vitae (3) Contact information for three references (4) Unofficial academic transcript (5) Publications (if any). Applications should be sent by email to Prof. Gennady Gor gor@njit.edu with *PhD application* in the subject. Please send it as a single PDF file. Application review will begin immediately. At the next stage, GRE and TOEFL are required. Invited candidates will be required to complete a formal NJIT application as described at the NJIT admissions website: <https://www.njit.edu/admissions/phd-programs>

About the PI: Dr. Gor and his group has been developing and applying theoretical and computational methods (Monte Carlo simulations, molecular dynamics, density functional theory, etc.) to solve a wide spectrum of engineering problems related to porous materials and solid-fluid interfaces. Dr. Gor's research has been published in more than 60 papers in peer-reviewed journals. Prior joining NJIT he worked at Rutgers University, Princeton University and Naval Research Laboratory. He is the recipient of the National Research Council Associateship (2014) and the NSF CAREER Award (2020). More information at <http://porousmaterials.net/>

About NJIT: NJIT is one of the US leading public research universities, with 140 years of history. NJIT is located in the vibrant University Heights district of downtown Newark, NJ, just 20 minutes from Manhattan, NY by train.

