



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

## Postdoc Position in Molecular Modeling of Nanoporous Materials and Confined Fluids

**About the position:** The Computational Laboratory for Porous Materials is seeking applicants for a postdoctoral position. The initial appointment is for 1 year, with potential extension. The start date is flexible, and can be as early as **September 2022**. The candidate will be working in the group of **Prof. Gennady Gor** on one or more 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 modeling of organophosphorus compounds

**An ideal candidate should have:**

- (1) Strong motivation to pursue interdisciplinary theoretical and computational research
- (2) Ph.D. in physics, chemical engineering, physical chemistry, materials science, etc.
- (3) Track record of peer-reviewed publications
- (4) Previous experience in molecular dynamics, Monte Carlo, classical DFT, or *ab initio* modeling
- (5) Strong programming skills
- (6) Experience with popular MC/MD/*ab initio* software (LAMMPS, Gromacs, Gaussian, etc.)

**How to apply:** Applications should include the following:

- (1) Short cover letter
- (2) Curriculum vitae, including contact information for three references
- (3) Three selected publications

Applications should be sent by email to Prof. Gennady Gor [gor@njit.edu](mailto:gor@njit.edu) with *Postdoc application* in the subject. Please send it as a single PDF file. Application review will begin immediately.

**Note:** PhD students positions are also available, see <http://porousmaterials.net/positions.html>

**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.