



Ph.D. in Molecular Modeling of Fluids Sorption by Porous and Soft Materials

The Department of Chemical, Biological and Pharmaceutical Engineering is seeking applicants for **1 or 2 Ph.D. student** positions. The candidate will be working on developing molecular-based models for fluids adsorption by porous and soft materials in the group of **Dr. Gennady Gor**.

Our group is specializing in porous materials and confined fluids, tackling challenges in numerous applied areas of research: membrane separations, high energy storage batteries, chemical sensing, shale gas extraction and carbon sequestration, etc. We use a combination of modeling techniques that cover both the micro and macro scales: molecular dynamics and Monte Carlo simulations, classical density functional theory (cDFT); electronic structure DFT and finite element methods (FEM). For additional information about the group and for short description of possible projects, please visit <http://porousmaterials.net>

Ph.D. Student Position, starting **January or September 2018**: We welcome highly motivated students who are interested in pursuing interdisciplinary **theoretical and computational research** to join us. Students with background in one of the following disciplines are encouraged to apply: chemical engineering, physics, chemistry, materials science, etc. The ideal candidate should have a M.S. degree, however outstanding candidates with a B.S. degree will also be considered.

How to apply: Initial applications should include the following:

- (1) Short cover letter
- (2) Curriculum vitae
- (3) Contact information for three references
- (4) Academic transcript
- (5) Publications (if any)

Applications should be sent by email to Dr. Gennady Gor gor@njit.edu with "PhD application" in the subject. Please send it as a single PDF file. At the following stage, GRE and TOEFL are required. Invited candidates will be required to complete a formal NJIT application as described at the NJIT admissions website:

<http://www.njit.edu/admissions/graduate/howtoapply/criteria/phd-programs.php>

http://chemicaleng.njit.edu/academics/graduate/phd/CBPE_PhD_Guidelines.php

<http://chemicaleng.njit.edu/academics/graduate/phd/>

About NJIT: NJIT is one of the US leading public research universities, with 130 years of history. NJIT is located in the vibrant University Heights district of downtown Newark, NJ, just 20 minutes from Manhattan, NY by train.