



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

## Postdoc Position: Experimental Studies of Nanoconfined Fluids

**About the position:** NJIT 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 **July 1, 2022**. The candidate will be working on **ultrasonic studies of nanoconfined fluids**, supervised jointly by **Prof. Gennady Gor** and **Prof. Alexei Khalizov**. More information about the project can be found in our recent review paper: <https://doi.org/10.1063/5.0024114>

### **An ideal candidate should have:**

- (1) Strong motivation to pursue interdisciplinary experimental research
- (2) Ph.D. in physics, chemical engineering, geophysics, mechanical engineering, etc.
- (3) Track record of peer-reviewed publications
- (4) Relevant hands-on experimental experience (applicants with expertise in **ultrasound** and/or **gas adsorption** are particularly encouraged to apply)
- (5) Basic programming/data processing skills (Matlab, Python, 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 Professors:**

**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/>

**Dr. Khalizov's** group develops instrumentation and conducts experimental and modeling work to understand the interactions of atmospheric nanoparticles. Dr. Khalizov has published more than 70 journal articles. Prior to joining NJIT, he conducted research at Texas A&M University, University of Waterloo, and McGill University. He is the recipient of the NATO-NSERC Postdoctoral Fellowship (2000) and the NSF CAREER Award (2016). More information at <https://centers.njit.edu/kg/>

**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.