

Surface Engineering and Molecular Assemblies (SEMA) Lab

School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA USA

Ranked #3 MSE undergraduate and #7 MSE graduate programs in USA

Post-doc position openings and graduate student opening (possible)

Starting- Fall 2022

SEMA lab (<http://polysurf.mse.gatech.edu/>) has openings for post-doctoral researchers (graduate students might be considered) in the field of flexible functional polymer nanocomposites as prospective biomolecular, strain, and stress thin-film sensors. Experience in graphene, 2D materials, grafting, synthetic and biopolymers, microfabrication, and full-scale characterization with advanced microscopy and scattering techniques (extensive AFM, TEM, SEM, SANS, SAXS) and UV, PL, SERS, FTIR, XPS spectroscopies is important. Expected interest and/or background: **hybrid polymer nanocomposites, biocomposites, functional nanomaterials, complex interfaces, solid electrolytes, photonic materials, machine learning, biocomputing, microfabrication, AFM data analysis and modeling, thin-film electronics, or living-machine interfaces and materials.** Chemistry, physics, computation, electrical engineering, and traditional materials science engineering education is good.

Creativity, hard work, and productivity are must. Quick learners needed. US citizenship or permanent residence are big plus+.

E-mail Dr. Vladimir Tsukruk with [SEMA lab – GRA/PD position] in the subject line with your resume if you're interested: vladimir@mse.gatech.edu

SEMA website: <http://www.polysurf.mse.gatech.edu/>

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