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/](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/](http://www.polysurf.mse.gatech.edu/)

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*Vladimir V. Tsukruk*

Regents Professor

School of Materials Science and Engineering, Georgia Institute of Technology;

Office: 3100M, Molecular Science&Engineering Bldg. 901 Atlantic Dr., NW, Atlanta, GA 30332, USA

Ph.: 404-894-6081; vladimir@mse.gatech.edu; [http://polysurf.mse.gatech.edu/](http://polysurf.mse.gatech.edu/)

Executive Editor, *ACS Applied Materials & Interfaces*

APS, ACS, MRS, and Fulbright Fellow