

**Faculty Name:**

Oleg Gang

**Faculty Email:**

og2226@columbia.edu

**Lab:**

Gang Lab

**Project Title:**

Reconfigurable DNA-based nanomaterials

**Description:**

The project involves the development of DNA-based nanomaterials that respond in the designed way to molecular stimuli and external fields. The work will include the assembly of nanomaterials from DNA and nanoparticles, their characterization using spectroscopic and structural methods, and the study of their structural reconfiguration. The developed systems will be used to explore the manipulation and switching of optical and mechanical properties of the newly developed nanomaterials.

**Location of Research:**

On Site

**# of hrs/week:**

40

**Department/Program:**

Chemical Engineering

**Eligibility:**

BS, First Year, BS, Second Year

**To apply, please contact:**

Oleg Gang

og2226@columbia.edu