

Science and Technology at the Nanoscale
Materials Science & Engineering
Undergraduate Summer Research Program Application

Name: _____

Year: _____

Major (write Undeclared if undeclared): _____

Email: _____

*Applications must be submitted via email to Professor Renee Sher, Durand Rm 131
(msher@stanford.edu) by 5PM on March 6, 2015.*

Please include an unofficial copy of your transcript with your application.

Name: _____

Choose up to five projects for which you would like to be considered. Rank your interests from 1-5. (1 = most interested)

Professor Bruce Clemens <i>Nanoparticles for photoelectroncatalysis</i>	
Professor Yi Cui <i>Nanomaterials design for energy applications</i>	
Professor Reinhold Dauskardt <i>Complex mechanical behavior in nanostructured thin films</i>	
Professor Reinhold Dauskardt <i>Biomechanical function of human skin</i>	
Professor Jennifer Dionne <i>Seeing is believing: High sensitivity nano-optical biosensors for your smart phone</i>	
Professor Jennifer Dionne <i>Lights, Chemistry, Action! Light-induced synthesis of novel catalysts for energy</i>	
Professor Sarah Heilshorn <i>Design of biomaterials with nanoscale precision through protein engineering</i>	
Professor Aaron Lindenberg <i>Femtosecond measurements of materials as they transform</i>	
Professor Michael McGehee <i>Perovskite solar cells</i>	
Professor Paul McIntyre <i>Characterization of Ge-Sn nanowires</i>	
Professor Nicholas Melosh <i>New synthetic routes to low dimensional chalcogenides</i>	
Professor Evan Reed <i>Computer modeling of nanomaterials</i>	
Professor Alberto Salleo <i>Art+Science research project with SSRL and Cantor</i>	
Professor Alberto Salleo <i>Soft materials for mixed ionic and electronic transport</i>	
Professor Robert Sinclair <i>FIB and SEM of nanomaterials</i>	
Professor Shan Wang <i>Magnetic nanoparticle-based collection and analysis of circulating tumor cells from blood samples</i>	

Name: _____

Please answer each of the following three questions in 300 words or less.

1. Describe your interest in materials science and engineering.

Name: _____

2. Why are you interested in this particular research project (or projects)?

Name: _____

3. What experiences, if any, have you had working in a research laboratory? (No previous experience is required.)