



Research Assignment - 2008

Principal Investigator **Latika Menon**

Title **Assistant Professor**

College/Department **Arts and Sciences**

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Title of research assignment

Nanomaterials: Fabrication and Device Applications

Research abstract

Our research program involves the utilization of nanoporous alumina and titania nanotemplates for the development of nanostructures. Our goal is to understand the fundamental properties of these nanomaterials and investigate their application in devices.

Research activities/experience

The project will involve fabrication of nanoporous alumina and titania templates and using the template to prepare nanowires of various magnetic and semiconductor materials. The optical

Expectations of RET

Teachers will be expected to show creativity in designing and modifying the toxicity testing experiments. They will also be expected to exercise care and diligence in performing the experiments. Being an experimental project dealing with living cells, a sensitivity to different experimental and environmental parameters will be necessary.

Special skills or interests that would help a RET participant with this assignment (i.e., an interest in physics, experience with specific laboratory equipment, etc.)

None

Lab safety/issues unique to this laboratory. A general Lab Safety Overview will be presented by Environment Health and Safety to both RET and YSP participants prior to the beginning of lab assignments.

Use of small quantities of HF.

Suggested literature to be reviewed prior to beginning this research assignment.

Research/Lab Summer Hours : a.m. – : p.m. Monday through Thursday
 Monday through Friday

Scheduled Research/Lab Meetings : a.m. – : a.m. Daily Wednesday To be determined
 Monday Thursday
 Tuesday Friday

Lab/research project URL

Research/Lab Supervisor

Email

Phone

Research/Lab Assistant

Email

Phone