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Subject: New Project Proposal Submission
Date: Thursday, May 28, 2009 9:39:35 AM

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Department:	PERC
Faculty Advisor:	Scott Brown
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Lab Address:	205 PS and T Building
Department:	PERC
Title:	High Aspect Ratio Material For Biological And Energy Application
Problem:	New materials are needed for solar energy, and battery materials as well as for biological sensors and therapeutics.
Approach:	Students will apply a novel synthesis process to create designer nanocomposite materials and perform functional evaluations.
Techniques/Equipment:	AFM, Langmuir Trough, Fluorescence Spectroscopy Conductivity.
Systems and Materials:	TO2 Nanocomposites, PLGA Nanocomposites.
Goals:	To prepare and functionally evaluate new materials for ion storage, solar energy collection, advanced characterization and diagnostic, separately.
Relevant Industries/Applications:	Energy and Big Pharma
Number of Students Requested:	3
Time Commitment:	10-15 hours
Semesters Required to Complete Project:	2-3
Will this Project Satisfy Senior/Honor Research Requirements in your Department?	Yes
If not, Can the Scope of this Project be Expanded to Meet	No

Senior/Honor Research Requirements?	
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