

UNIVERSITY OF MARYLAND MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER
SUMMER 2011

RESEARCH EXPERIENCE FOR UNDERGRADUATES APPLICATION FORM



Mr. or Ms. (circle)

First name: _____

Family name: _____

Date of birth: _____

Citizenship Status (circle one): US Citizen US Permanent Resident

By NSF Guidelines, this program is available to US Citizens and permanent residents only

Address where you can be reached through May 1, 2011:

Home or permanent address if different from above:

Home Phone: _____

Cell Phone: _____

Email Address: _____

College/University you are attending: _____

Department in which you are majoring: _____

Grade-point average for science/math/engineering: _____

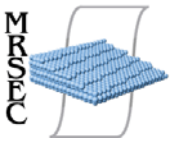
Overall grade point average for all courses: _____

Expected date of graduation from college: _____

Current academic year (circle one): sophomore junior

Have you participated in other NSF REU programs in the past? ___YES ___NO

If "yes", please list the program(s)



UNIVERSITY OF MARYLAND MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER
SUMMER 2011
RESEARCH EXPERIENCE FOR UNDERGRADUATES APPLICATION FORM



RESEARCH PROJECTS

[Please rank your top 5 interests from 1 (most interested) to 5 (least interested) and place an "X" next to those topics that do not interest you.] See

<http://mrsec.umd.edu/REU/Projects/2011Projects.html> for project details.

- Synthesis of nanomaterials for solar generation of hydrogen
- Synthesis and electronic transport properties of graphene: single graphite layers
- Multifunctional atomic layer deposition (ALD) films as oxidant barriers
- Graphene metamaterials
- ZnO nanowires and nanoparticles with liquid crystal for photovoltaic applications
- Embedded computing of Arduino

STATEMENT OF INTEREST

In order to help us learn more about you, please write a brief essay describing:

1. Your research interest and experiences.
2. Which REU projects interest you and why? See above and website
3. Expectations for summer experience at UMD MRSEC
4. Graduate school plans, and your career plans and goals.
5. Why do you want to do research in a materials research center and why particularly at the Maryland MRSEC?

ADDITIONAL MATERIALS

- A. Please have one copy of your official transcripts mailed to the address below.
- B. Please arrange for two letters of recommendations to be sent to the address below.

MRSEC-REU Summer Program
Physics Building 082, Room 2120
University of Maryland
College Park, MD 20742-4111
FAX: 301-405-7993

Optional: *This information is strictly confidential and required for NSF statistical purposes.*

Ethnic Group/Racial background (circle one):

- | | | |
|-----------------------------------|------------------------|------------------|
| White/not Hispanic origin | African American/Black | Asian |
| Native American or Alaskan Native | Hispanic | Pacific Islander |

THE UMD-REU OPPORTUNITY IS SUPPORTED PRIMARILY BY THE
MRSEC PROGRAM OF THE NATIONAL SCIENCE FOUNDATION (NSF) UNDER AWARD NO: DMR 0520471