MCTP Bridge Program
A Science and Engineering
Paid Summer Research Internship
July 5 – August 13, 2011

Incoming CalState (CSU) and CalPoly students accepted to UCLA science or engineering graduate programs are eligible for a paid, six week summer research internship with a member of the UCLA Materials Creation Training Program (MCTP) faculty. Students from underrepresented groups who have graduated from other institutions are also encouraged to apply.

The internship will begin the summer preceding the start of the graduate program. Students will participate in research with advanced research instrumentation equipment and work on a collaborative research project with an MCTP faculty advisor. They will also present a poster based on their research at the Fall MCTP Symposium at UCLA.

The program is only open to students accepted into one of the following UCLA graduate programs: Biomedical Engineering, Chemical and Biomolecular Engineering, Chemistry and Biochemistry (Inorganic, Organic and Physical), Electrical Engineering, Materials Science and Engineering, Mechanical and Aerospace Engineering, or Physics and Astronomy.

The MCTP Bridge Program is funded by the National Science Foundation, therefore applicant eligibility is limited to U.S. citizens and permanent residents.

Application Deadline: May 31, 2011

Program application can be found at http://mctp.cnsi.ucla.edu.
For more information please contact Laurie Ultan-Thomas at lut@cnsi.ucla.edu.
MCTP Training Faculty
2010-2011

Principal Investigator and IGERT Program Director
Robin L. Garrell* Chemistry & Biochemistry
Member, Biomedical Engineering
Interdepartmental Ph.D. program (BME)
Surface chemistry and Bio NEMS

Co-Principal Investigators and IGERT Program Co-Directors
Bruce Dunn* Materials Science & Eng/BME
Inorganic hybrid materials
Richard B. Kaner* Chemistry & Biochemistry/
Nanofiber synthesis/sensors
Materials Science & Eng
Sarah H. Tolbert* Chemistry & Biochemistry
Templated nanostructures

Faculty Participants
Stuart Brown Physics & Astronomy
Electronic materials
Jane P.-C. Chang* Chemical & Biomolecular Engineering
Materials electrochemistry
Yong Chen* Mechanical & Aerospace Engineering
Ultra-high density electronics
Timothy Deming* Materials Science/BME
Polypeptide synthesis, self-assembly
Xiangfeng Duan* Chemistry & Biochemistry
Nanoscale materials
Miguel A. Garcia-Garibay* Chemistry & Biochemistry
Functional solids/rotary ferroelectrics
George Grüner* Physics & Astronomy
Biosensors
Chih-Ming Ho Mechanical & Aerospace Engineering
Microfluidic devices & sensors
Kendall N. Houk* Chemistry & Biochemistry
Computational chemistry
Yu Huang* Materials Science & Engineering
Nanostructures, nanoelectronics, biomaterials
Andrea Kasko* Bioengineering
Biomaterials
Chang-Jin Kim* Mechanical & Aerospace Engineering
MEMS, nanodevices
Heather Maynard* Chemistry & Biochemistry/BME
Biohybrid material synthesis
Jianwei Miao* Physics & Astronomy
Coherent imaging
Harold G. Monbouquette* Chemical & Biomolecular Engineering
Biosensors & bioelectrochemistry
Vidvuds Ozolins * Materials Science & Engineering
Electronic theory
Qibing Pei* Materials Science & Engineering
Artificial muscles
Yves Rubin Chemistry & Biochemistry
Fullerene materials, solar cells
Benjamin J. Schwartz* Chemistry & Biochemistry
Ultrafast spectrsc./conducting solids
Tatiana Segura* Chemical & Biomolecular Engineering
Biomaterials/tissue engineering
Selim Senkan Electrical Engineering
Catalysis and combustion
Kang L. Wang* Electrical Engineering
Electronic characterization
Paul S. Weiss* Chemistry & Biochemistry
Nanoscience, molecular devices, chemical patterning
Yang Yang* Materials Science & Engineering
Molecular memory devices
Hong Zhou* Microbiology, Immunology &
Cryo-electron microscopy of nano
Molecular Genetics
scale materials

*Member of the California NanoSystems Institute (CNSI)