Materials Creation Training Program
An NSF Interdisciplinary Graduate Education and Research Training (IGERT) program
Supported by the National Science Foundation since 2001

MCTP Fellows design, synthesize and characterize novel molecules and assemblies that are the constituents of new materials and devices.

The MCTP prepares doctoral students to be leaders in the global technology workforce.

Selection and Participation
- Trainees are selected at the end of their 1st year of graduate study, and are supported in their 2nd and 3rd years.
- Trainees and faculty come from the departments of Chemistry & Biochemistry, Chemical and Biomolecular Engineering, Materials Science Engineering, Mechanical and Aerospace Engineering, Physics, Bioengineering, and Electrical Engineering
- Trainees fulfill the doctoral degree requirements of their “home department”, including teaching and research.
- Trainees are mentored by their dissertation advisor and a co-advisor from a different discipline.
- Trainees have access to state-of-the-art instrumentation and fabrication facilities across the UCLA campus.

Program Elements
- Materials Chemistry Laboratory
- Evolution of Devices: from Concept to Product seminar
- MCTP Nanostructure Fabrication Laboratory
- MCTP Brown-Bag Seminar
- Research ethics course
- Internship at company, national lab or other university
- Mentoring and supervising undergraduates
- Presentations at MCTP Annual Symposia and conferences
- Outreach activities through the California NanoSystems Institute (CNSI)

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