

Program Leadership



Laurent Pilon, Co-PI
Assoc. Prof., MAE



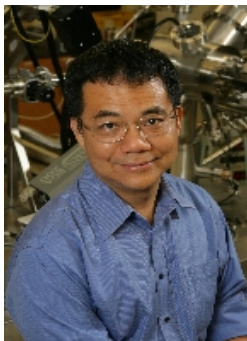
Kang Wang, Co-PI
Prof., EE



Diana Huffaker, PI
Assoc. Prof., EE
Director, INML, CNSI

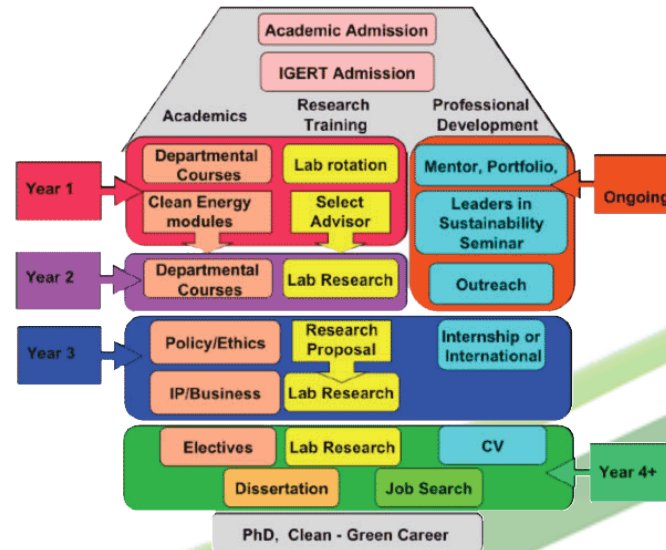


Megali Delmas, Co-PI
Assoc. Prof., IOE



Yang Yang, Co-PI
Prof., MSE

IGERT Traineeship Flow Chart



★ Each trainee's participation includes academic, research training and professional development with scientific, business and policy emphasis.

★ Program features include clean energy lecture, laboratory and seminar-based curriculum, internships or international experience, business development and small company opportunities along with community involvement activities in K-12.

For further information please **contact:**
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NSF-IGERT

Clean Energy for Green Industry



Traineeship for Graduate Study at UCLA



award #0903720



Clean Green IGERT

Technology

★ Energy Harvesting

- Solar cells, TPVs, Biofuels
- Thermoelectric and wind energy
- Nanomaterials, quantum dots, wires

★ Energy Storage

- New batteries using Sol-Gel methods
- 3-Dimensional microscale batteries
- Electrochemical “Super Capacitors” using CNTs

★ Energy Conservation

- Top-down analysis of campus power generation.
- Design of residential and commercial buildings using smart windows, cool paint and thin film reflective coating for roof and car tops
- Combined PV and solar collectors for distributed heat and power generation

CGI Mission Statement

★ **Clean-Green** IGERT (CGI) at the University of California, Los Angeles (UCLA) is designed to train U.S. Ph.D. scientists and engineers for leadership roles in the clean energy sector – industry, government and university – through integrated research, education and service.

★ CGI is tasked to impact economic growth in the City of Los Angeles. Emphasis is placed on developing new business opportunities through university intellectual property and a highly trained workforce.

★ CGI addresses the urgent societal challenge of meeting increasing energy needs without further negatively affecting the environment.

★ Community programs are design to educate and involve future scientists and leaders in K-12.

Fellowship Benefits

- ★ \$30K annual stipend
- ★ Registration fees
- ★ Laboratory fees
- ★ Tuition
- ★ Medical insurance
- ★ Conference travel
- ★ Internship
- ★ International experience

Participating Departments

- ★ Electrical Engineering
- ★ California NanoSystems Institute (CNSI)
- ★ Institute of the Environment
- ★ Environmental Science & Engineering
- ★ Materials Science & Engineering
- ★ Mechanical & Aerospace Engineering
- ★ Chemical & Biomolecular Engineering
- ★ Chemistry & Biochemistry
- ★ Center for Excellence in Eng. & Diversity (CEED)
- ★ Anderson School of Management