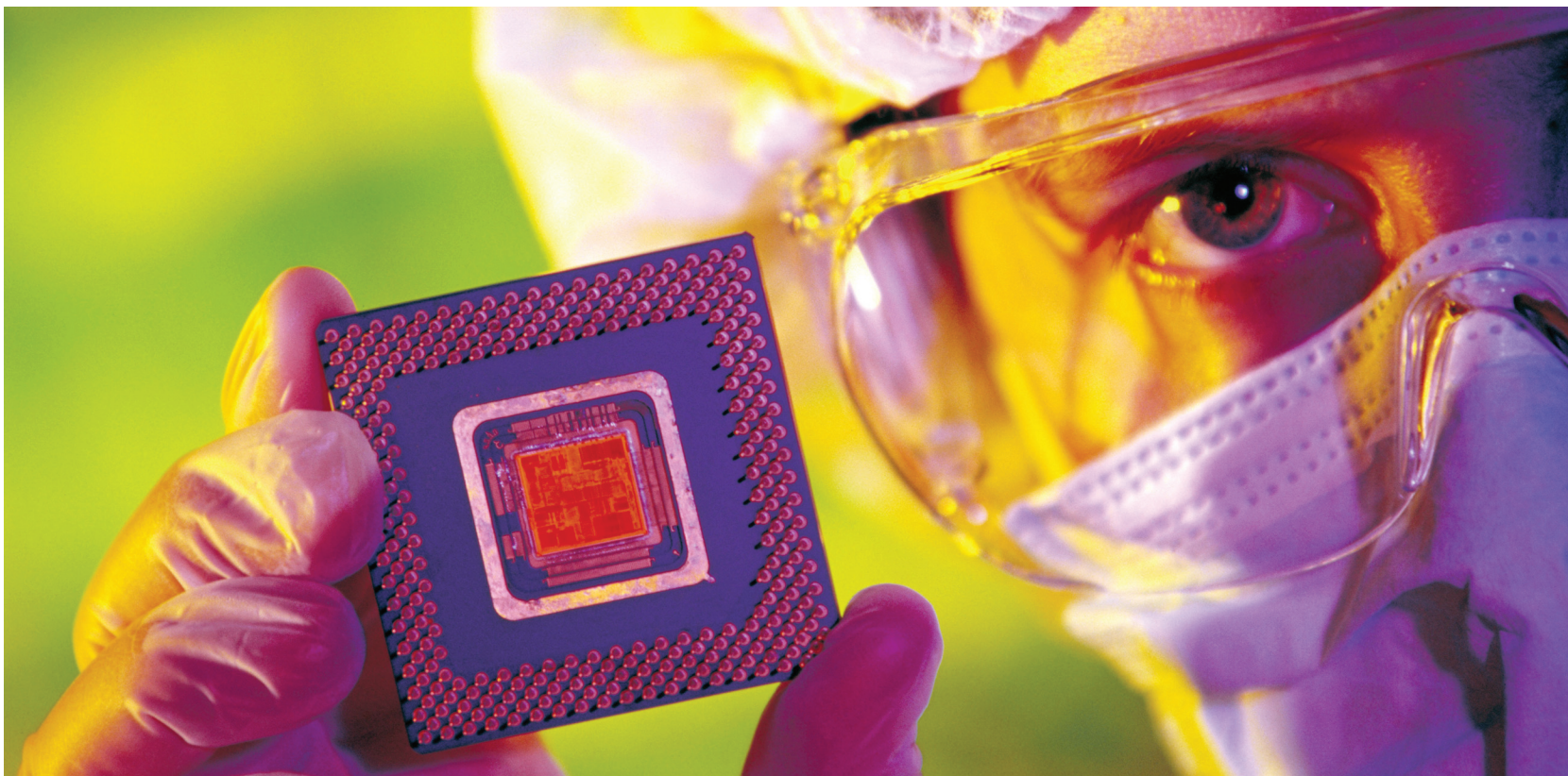




small technology, **BIG OPPORTUNITY**
Exciting careers in high growth industries



PROFESSIONAL DEVELOPMENT CERTIFICATES IN NANOTECHNOLOGY & CLEAN TECH

Business Re-engineering Certificate in Nanotechnology & Clean Tech
"Train the Trainer" Certificate in Nanotechnology & Clean Tech

October 10-12, 2007 - San Jose

November 5-7, 2007 - San Francisco

December 5-7, 2007 - San Jose

The California Institute of Nanotechnology, in partnership with the International Association of Nanotechnology, is pleased to offer a series of Professional Development Certificates in Nanotechnology & Cleantech beginning summer 2007.

The program is supported by the President's High Growth Job Training Initiative under the US Department of Labor and the Chancellor's Office of California Community Colleges.

These high-level professional development training workshops are taught by a world-class faculty consisting of senior executives, leading scientists, and professors from industry and academic institutes such as Stanford University, NASA and the California Institute of Nanotechnology.



Nanotech Training Program

Embark on a rewarding career
in Nanotechnology & Clean Tech

- Business executives and professionals: Re-engineer your company's product development, manufacturing processes and expand your market share in a global marketplace.
- Scientists or engineers: Become a specialist and a trainer in the emerging field of nanotechnology.
- Apprentices: Qualified candidates can enroll in paid on-the-job training.
- Displaced workers with a background in technology: Acquire new skills for a career in nanotechnology.



Co-managed by

The International Association
of Nanotechnology

Nanotechnology & Clean Tech: The Next Industrial Revolution



BUSINESS RE-ENGINEERING CERTIFICATE IN NANOTECH & CLEANTECH

The Business Re-engineering Program provides insight on business re-engineering and the fundamental application of nanoscience and nanotechnology. The program includes a two days workshop of lecture, group discussions, and completion of a mini-business proposal. A certificate of accomplishment will be awarded upon the completion of the coursework and a submission of a mini-business proposal.

Prerequisite: a minimum of a BA or BS degree with three years of industry experience or equivalent.

PRELIMINARY COURSE SCHEDULE: (subject to change)

Day 1

Registration / Continental Breakfast
(8:00 AM - 8:30 AM)

[Nanotech 100BE: Introduction to Nanotechnology](#)
(8:30 AM - 10:00 AM)

Coffee Break
(10:00 AM - 10:15 AM)

[Nanotech 120BE: Nanotech & Cleantech Business: an Overview](#)
(10:15 AM - 11:45 AM)

Lunch
(11:45 AM - 1:00 PM)

[Nanotech 140BE: Environmental Health & Safety Implications of Nanotechnology](#)
(1:00 PM - 2:30 PM)

Coffee Break
(2:30 PM - 2:45 PM)

[Nanotech 220BE: Essentials of Patent & Intellectual Property](#)
[Nanotech 240BE: Technology Licensing & Corporate Strategic Alliance](#)
(2:45 PM - 5:45 PM)

Day 2

Registration / Continental Breakfast
(8:00 AM - 8:30 AM)

[Nanotech 320BE: Financing an Emerging Technology Company](#)
(8:30 AM - 10:00 AM)

Coffee Break
(10:00 AM - 10:30 AM)

[Nanotech 340BE: IPO Options for a High Growth Enterprise](#)
(10:30 AM - 12:00 PM)

Lunch
(12:00 PM - 1:30 PM)

[Nanotech 440BE: Nanotech & Cleantech Projects](#)
(1:30 PM - 5:00 PM)

Certificate Programs

Executive & Business Re-engineering

COURSES:

Nanotech 100BE: Introduction to Nanotechnology

Nanotech 120BE: Nanotech & Cleantech Business: an Overview

Nanotech 140BE: Environmental Health & Safety Implications of Nanotechnology

Nanotech 220BE: Essentials of Patent & Intellectual Property

Nanotech 240BE: Technology Licensing & Corporate Strategic Alliance

Nanotech 320BE: Financing an Emerging Technology Company

Nanotech 340BE: IPO Options for High Growth Enterprise

Nanotech 440BE: Nanotech & Cleantech Projects



"Train the Trainers" Program

COURSES:

Nanotech 125TT: Introduction to Nanotechnology

Nanotech 145TT: Environmental Health & Safety Implications of Nanotechnology

Nanotech 225TT: Nanomaterials Characterization

Nanotech 235TT: Surface & Thin Film - Applications in Nanotechnology

Nanotech 245TT: Nanotech & Cleantech Business

Nanotech 315TT: Introduction to Carbon Nanotubes

Nanotech 325TT: Micro and Nano-Fabrication: An Overview

Nanotech 425TT: Nanobiotechnology & Nanomedicine: Fundamentals & Applications of Tissue Engineering

Nanotech 525TT: Nanotech & Cleantech Projects

Nanotechnology, a new frontier in science and technology, gives us the ability to design and manipulate materials at the molecular level – atom by atom – and thereby changes the way new products are manufactured. Nanotechnology is an enabling platform technology for a wide range of applications, including:

- Chemical Industry • Electronics
- Semiconductors • Biotechnology
- Pharmaceutical • Cosmetics • Aerospace
- Automotive • Homeland Security • Defense
- Textile, and the Consumer Product Industry.

New jobs in fast-growing industries

According to the National Science Foundation, nanotechnology is one of the highest growth sectors in the United States, creating more than 2 million jobs by the year 2015, including:

- researchers • scientists • engineers
- technicians • manufacturers
- quality control specialists
- sales and marketing representatives
- distributors of advanced materials products
- administrators • management consultants
- professional service providers and others.

California Institute of Nanotechnology

The Institute's mission is to conduct research and development and provide workforce education and training in nanotechnology. In order to meet the needs of the emerging industry, the Institute provides:

- Basic to advanced training programs taught by world-class scientists and business leaders.
- Networking opportunities with nanotechnology research centers and companies worldwide.
- Organized scientific conferences and job fairs to bring scientists, researchers, business executives, employers and job seekers together.
- Training to equip qualified dislocated workers with the essential skills for the nanotechnology industry.

International Association of Nanotechnology

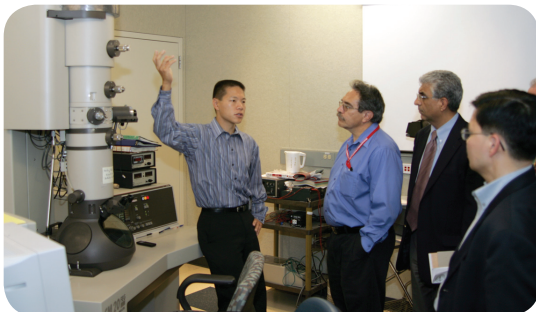
The Association is a leading non-profit organization fostering research and business collaboration in the emerging field of nanotechnology for the benefit of society worldwide.



“Train the Trainer” CERTIFICATE IN NANOTECH & CLEANTECH

“Train the Trainer” is designed to train science instructors from community colleges, practicing scientists or engineers in state-of-the-art advanced manufacturing focusing on the commercial applications of nanotechnology. This program includes a three day workshop of lecture, group discussions, a tour of a workshop on how to use AFM and SEM and submission of a mini-proposal.

Prerequisite: a minimum of a BS degree with 10 years of academic/industry experience; or a PhD with five years of academic/industry experience or equivalent.



PRELIMINARY COURSE SCHEDULE: (subject to change)

Day 1

Registration / Continental Breakfast
(8:00 AM - 8:30 AM)

Nanotech 125TT:
Introduction to Nanotechnology
(8:30 AM - 10:00 AM)

Coffee Break
(10:00 AM - 10:15 AM)

Nanotech 245TT: Nanotech & Cleantech
Business: an Overview
(10:15 AM - 11:45 AM)

Lunch
(11:45 AM - 1:00 PM)

Nanotech 145TT:
Environmental Health &
Safety Implications of Nanotechnology
(1:00 PM - 2:30 PM)

Coffee Break
(2:30 PM - 2:45 PM)

Nanotech 315TT:
Introduction to Carbon Nanotubes
(2:45 PM - 4:45 PM)

Day 2

Registration / Continental Breakfast
(8:00 AM - 8:30 AM)

Nanotech 235TT:
Surface & Thin Films -
Applications in Nanotechnology
(8:30 AM - 10:00 AM)

Coffee Break
(10:00 AM - 10:30 AM)

Nanotech 325TT:
Micro & Nano-Fabrications
(10:30 AM - 12:00 PM)

Lunch
(12:00 PM - 1:30 PM)

Nanotech 525TT: (Part I)
Nanotech & Cleantech Projects
(1:30 PM - 2:30 PM)

Coffee Break
(2:30 PM - 2:45 PM)

Nanotech 425TT: Nanobiotechnology
& Nanomedicine: Fundamentals &
Applications of Tissue Engineering
(2:45 PM - 5:45 PM)

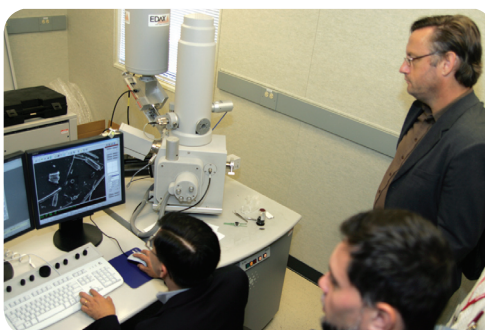
Day 3

Registration / Continental Breakfast
(8:00 AM - 8:30 AM)

Nanotech 525TT: (Part II)
Nanotech & Cleantech Projects
(8:30 AM - 11:00 AM)

Lunch & Travel
(11:00 AM - 1:00 PM)

Field Trip:
Workshop on How to Use AFM and
SEM for Nanoscale Characterization
(1:00 PM - 5:00 PM)
Stanford University
Nano-Characterization Laboratory



SUPPORTING PARTNERS:

- NASA Nanotechnology Center
- Lawrence Berkeley National Laboratory
- Lawrence Livermore National Laboratory
- Global Crown Capital
- Combimatrix, Inc.
- NanoGram Corporation
- Quantum Sphere, Inc.
- Antibodies, Inc.
- SDC Materials, Inc.
- NanoScience Exchange
- Berkeley City College
- National Hispanic University
- Institute for Community Inclusion
- Work2Future Workforce Investment Board
- NOVA Workforce Investment Board
- Alameda Workforce Investment Board
- Oakland Workforce Investment Board
- California Manufacturing Technology Consulting
- California State Employment Training Panel
- California Community Colleges Workplace Learning Initiative

CO-MANAGED BY:

- International Association of Nanotechnology

SPONSORED BY

- Institute for Business Performance

COMMENTS

• “My congratulations to IANANO for convening the first set of workshops intended to move faculty and businesses toward systematizing the preparation of students to enter the nanotechnology workforce. It is clear that work at the nano level is going to be pivotal to development in a wide variety of industries. If the U.S. is to be competitive in this developing area, it must have the professionals who will be able to move the industries and the research forward. The workshops have begun that process. Personally, I was able to make contacts among several counterparts in academia that I believe I can use to establish partnerships that have the potential to move forward our own efforts to provide nanotechnology training to our students.”
Dr. David Johnson, Chair, Dept. of Math, Science, Computer National Hispanic University, San Jose, CA

• “The workshop was relevant to my job responsibilities and interests today” **Dr. Gary Edson**, CEO NanoPharmatix, Walnut Creek, CA

• “The workshop was excellent in that it fused the academic & vocational elements of emerging technologies. This really is what I need with my job as professor at a community college.”
Prof. Jim Wolf, College of the Canyons, Santa Clarita, CA

• “This course was thought out well with a good mixture of business and technology” **Mr. Nitin Shah**, VP Business Development Aviza Technology, Inc., Scotts Valley, CA

• “Excellent program, please continue to educate, promote and lead the research and development of Nanotechnology.”
Luis Herrera, Assistant Professor
Glendale Community College, Glendale, CA

• “Very well designed and organized.”
Dr. Alin Ciocchina, Dean, Applied Science & Technology
San Joaquin Delta College Stockton, CA

• “I myself have learned a great deal from attending this program as well as the whole conference. Visiting the nano-characterization lab at Stanford University is an eye-opening experience for me too.”
Dr. Guangqiang Jiang, Material Scientist
Alfred Mann Foundation for Scientific Research
Santa Clarita, CA

• “The new generation of young engineering students should be exposed to promises and opportunities of this technology in order to be able to expand the present state of the technology and move toward processing and manufacturing challenges of this new field. What ICNT is doing is a step toward the right direction that should be supported by both private and public sectors that will be affected by development of this new field.”
Prof. Mohammad Panahandeh
Diablo Valley College, Pleasant Hill, CA

• “The courses on start-up, IPO, IP protection and VC firm presentation was excellent. The speakers did an excellent job”
Dr. Zia Karim, Director, Business Development & Technology
AIXTRON, Inc. Sunnyvale, CA

• “I would like to see more Nano related organization would send their workers to these training to broaden the employees’ views at their workplace as well as the industry’s practice.”
James Lequynh, CEO
Qenergyx, LLC, Houston, TX

• “Training the Trainer is a great idea. The Stanford trip was excellent. The lectures were great.”
“This workshop is essential for my own well being. It gave me the confidence to write a multi-million dollar proposal to establish a research program in Nanotechnology. I am working steadily to achieve the goals of that proposal.”
Dr. Mazen Al-Khatib, Associate Professor
Department of Electrical & Computer Engineering
University of South Alabama.

Registration Form

Please complete the following Registration Form

fax to: **408.293.9057**

mail to: **California Institute of Nanotechnology**
1290 Parkmoor Avenue, San Jose, CA 95126 USA

Prefix: ☐ Prof. ☐ Dr. ☐ Mr. ☐ Mrs. ☐ Ms.

First Name: _____ M.I. _____

Last Name: _____

Title: _____

Organization: _____

Mail-Stop/Dept: _____

Address: _____

City: _____ State: _____

ZIP/Postal Code: _____

Phone: _____ Fax: _____

E-Mail: _____

PAYMENT METHOD

Total Payment: \$ _____

☐ Visa ☐ Mastercard ☐ Amex ☐ Discover

Credit Card #: _____

Expiration Date: _____

Card Holder Name: _____

Card Holder Address: _____

City: _____ State: _____

Card Holder Signature: _____

Date: _____

☐ Check/Money Order (make payable to: California Institute of Nanotechnology)

Co-managed by



International Association
of Nanotechnology

<http://ianano.org>

Sponsored by



<http://cleantechinstitute.org>

**CALIFORNIA
INSTITUTE OF
NANOTECHNOLOGY**



1290 Parkmoor Avenue, San Jose, CA 95126 USA

Tel: 408.277.3071 Fax: 408.293.9057

E-mail: info@cinano.com

www.cinano.com

LOCATION:

Training programs will be held at our corporate offices:
1290 Parkmoor Avenue
San Jose, CA 95126 USA

HOTEL RESERVATION:

Please visit our website at <http://ianano.org/housing.htm>
or call our Customer Service Representative at 408-277-3071

PROFESSIONAL DEVELOPMENT CERTIFICATES IN NANOTECH & CLEANTECH

Business Re-engineering Certificate in Nanotechnology

The list price is US\$3,750

Discounted tuition fee is \$1,875

Discounted tuition fees under the US Government subsidy for US companies outside California: \$695 *

Discounted tuition fees under the California Community Colleges Chancellor Office for California companies : \$395 *

"Train the Trainer"

The list price is US\$3,950

Discounted tuition fee is \$1,975

Discounted tuition fees under the US Government subsidy for US based companies outside California: \$795

Discounted tuition fees under the California Community Colleges Chancellor Office for California companies only : \$495 *

*Note: The US and California participants are eligible for the US Department of Labor and State of California financial subsidy as listed below, provided the participants (a) send a letter of in-kind support from the employer; (b) complete the coursework and submitting a mini-proposal within 15 days from the starting date of the workshop and (c) completing the 30-day evaluation form.

REQUIREMENTS:

The programs are designed to meet the needs of business executives, technical managers and academic professors to further advance their professional development in the high growth industries in nanotechnology, biotechnology, clean tech and related industries. Candidates must meet the following requirements:

1. Currently employed in the field of nanotechnology, biotechnology, clean tech or related industry; or from public education organizations such as universities, community colleges and technical institutes.
2. Meet the prerequisite requirements (i.e. a BS with three years of industry experience for Business Re-Engineering; or a PhD with at least five years' experience or equivalent for "Train the Trainer").
3. Participants are required to submit a letter from the employer indicating an "in-kind" (non-cash) contribution of at least \$1,875 in terms of the time spent to attend the training program and travel expenses.
4. Certificate of Accomplishment will be conferred unto participants who have completed the training program and have submitted a project proposal and 30-day follow-up.

CANCELLATION POLICY

All cancellations must be made in writing 10 business days prior to the beginning of the program, and subject to \$200 administrative fee. Substitutes will be considered case-per-case basis, provided that the substitute also meets the pre-requisite requirement.

REGISTRATION

Register on-line: <http://www.cinano.com/registration.htm>

For more information, please contact our Outreach Representatives at 408-277-3071 or visit our web site:
<http://www.cinano.com>

This Project was funded by a grant awarded under the President's High-Growth Job Training Initiative, as implemented by the U.S. Department of Labor's Employment & Training Administration; and the Chancellor's Office of California Community Colleges - Equal Opportunity Employer.