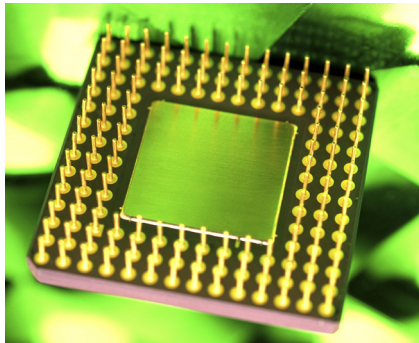




Nanotech Training Program

Embark on a rewarding career in Advanced Manufacturing

- *Business executives and professionals:* to re-engineer your company's product development, manufacturing process and expand market positioning.
- *Scientists or engineers:* to become an expert and a trainer in advanced nanotechnology technology.
- *Apprentice:* qualified candidates are encouraged to apply for the Apprentice Program with paid on-the-job training.
- *Displaced workers with a background in technology:* to get new skills for a career in a high growth industry.



Supporting Partners:

NASA Nanotechnology Center
 Lawrence Berkeley National Laboratory
 Lawrence Livermore National Laboratory
 Global Crown Capital
 Combimatrix, Inc.
 Nanogram, Inc.
 Quantum Sphere, Inc.
 Antibodies, Inc.
 SDC Materials, Inc.
 NanoScience Exchange
 Berkeley City College
 IBP- San Jose 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 Workforce Employment Training Panel
 California Community College Workforce Learning Initiative.

Sponsored and Co-managed:

International Association of Nanotechnology



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.

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 800-766-6008
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 http://www.cinano.com

The California Institute of Nanotechnology

small technology,
 BIG opportunity.

Exciting careers in high growth industries



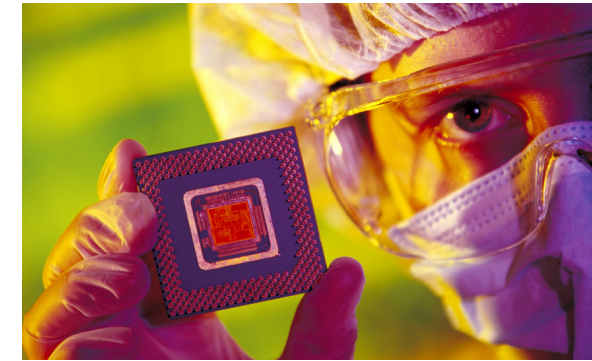
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<http://www.ianano.org>
<http://www.cinano.com>
 408-277-3071

Nanotechnology: The Next Industrial Revolution



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 change the way new products are manufactured in the future. Nanotechnology is an enabling platform technology for wide range of applications, including

- Chemical Industry
- Electronics
- Semiconductor
- Biotechnology
- Pharmaceutical
- Cosmetics
- Aerospace
- Automotive
- Homeland Security
- Defense
- Textile, and 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 1 million jobs by the year 2015, including

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

California Institute of Nanotechnology (CINANO)'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;
- Organizing scientific conferences and job fairs to bring scientists, researchers, business executives, employers and job seekers together.
- In particular, the Institute's aim is to equip qualified dislocated workers with the necessary skills for the nanotechnology industry. Veterans and economically-disadvantaged individuals are encouraged to apply.



Certificate Programs

Executive & Business Re-engineering

provides insight on the business re-engineering and fundamental application of nanoscience and nanotechnology. It requires a minimum of 30 hours of lectures and group discussions, i.e. an intensive 4 day workshop or over 2 weekends (Fridays and Saturdays).

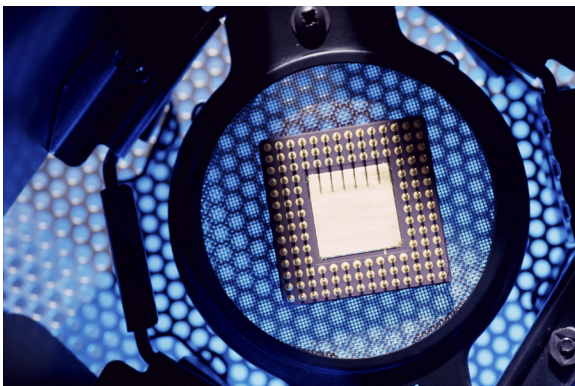
Prerequisite: a minimum of a BA or BS degree with 3 years of industry experience or equivalent is desirable.

Nanotech 100BE: Introduction to Nanoscience

Nanotech 140BE: Environmental Health & Safety Implications of Nanotechnology

Nanotech 240BE: Nanotech Business

Nanotech 320BE: Nanotech Re-engineering Project



Certified Nanotechnology Technician

is a thirteen-week Nanotechnology Technician Certificate Program designed to equip dislocated, unemployed and underemployed workers (including veterans, disabled and disadvantaged in need of training) to prepare themselves for jobs in the high-growth advanced manufacturing sector.

Prerequisite: Overall a minimum of 2 year AA degree in science or equivalent is required, a BS degree is desirable with 2 year experience working in industry.

Nanotech 100TE: Introduction to Nanoscience

Prerequisite: First year college level Chemistry, Physics and Mathematics

Nanotech 120TE: Introduction to Materials Science

Prerequisite: Nanotech 100TE

Nanotech 140TE: Environmental Health & Safety Implications of Nanotechnology

Prerequisite: Nanotech 100TE

Nanotech 200TE: Nanomaterials Characterization

Prerequisite: Nanotech 120TE

Nanotech 220TE: Surfaces & Thin Films

Prerequisite: Nanotech 120TE

Nanotech 300TE: Micro and Nano-Fabrication

Prerequisite: Nanotech 200TE and 220TE

Nanotech 320TE: Nanotechnology Project

Special projects on a research topic on Nanotechnology

Prerequisite: Nanotech 300TE



“Training of the Trainers” Program

is designed to train science teachers, practicing scientists or engineers in state-of-the-art advanced manufacturing focusing on the commercial applications on Nanotechnology. The program requires a minimum of 60 hours, i.e. two of 4 day workshops or 4 weekends (Fridays and Saturdays).

Prerequisite: a minimum of a BS degree with 10 years of academic/industry experience; or a PhD with 5 years of academic/industry experience or equivalent is required.



Nanotech 125TT: Nanotechnology

Prerequisite: advanced college level Chemistry, Physics and Mathematics

Nanotech 145TT: Environmental Health & Safety Implications of Nanotechnology

Prerequisite: Nanotech 125TT

Nanotech 225TT: Nanomaterials Characterization

Prerequisite: Nanotech 125TT

Nanotech 235TT: Surfaces & Thin Films

Prerequisite: Nanotech 225TT and 225TT

Nanotech 245TT: Nanotech Business

Prerequisite: Nanotech 125TT and 145TT

Nanotech 325TT: Micro and Nano-Fabrication

Prerequisite: Nanotech 225TT and 235TT

Nanotech 425TT: Nanobiotechnology & Nanomedicine

Prerequisite: Nanotech 145TT and 325TT

Nanotech 525TT: Nanotechnology Special Project

Prerequisite: Nanotech 325TT and 425TT

Nanotech 625TT: Nanotech Teaching Project

Prerequisite: Nanotech 525TT

Apprenticeship Program

to train a selected number of qualified students to get a paid job at a nanotech company while completing their training. A minimum of 144 hours of class-room learning in addition to 12 months of paid on-the-job training will be required to complete the Apprenticeship Program certified by CINANO and conferred by the US Department of Labor.

Prerequisite: a minimum of a AA degree in science or equivalent is required.

Nanotech 100AP: Introduction to Nanoscience

Prerequisite: First year college level Chemistry, Physics and Mathematics

Nanotech 120AP: Introduction to Materials Science

Prerequisite: Nanotech 100AP

Nanotech 140AP: Environmental Health & Safety Implications of Nanotechnology

Prerequisite: Nanotech 100AP

Nanotech 200AP : Nanomaterials Characterization

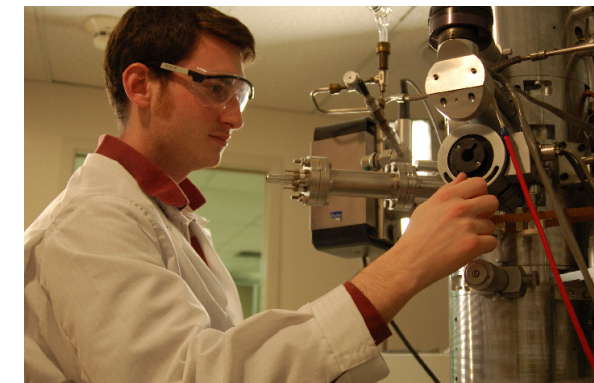
Prerequisite: Nanotech 100AP and 120AP

Nanotech 220AP: Surfaces & Thin Films

Prerequisite: Nanotech 100AP and 120AP

Nanotech 300AP: Micro and Nano-Fabrication

Prerequisite: Nanotech 200AP and 220AP



Financial aid is available for qualified applicants.

What are the next steps?

Please contact the Program Coordinator

Tel. 408-277-3071

Tel. 800-766-6008 (toll free)

Register online:

<http://www.cinano.com>