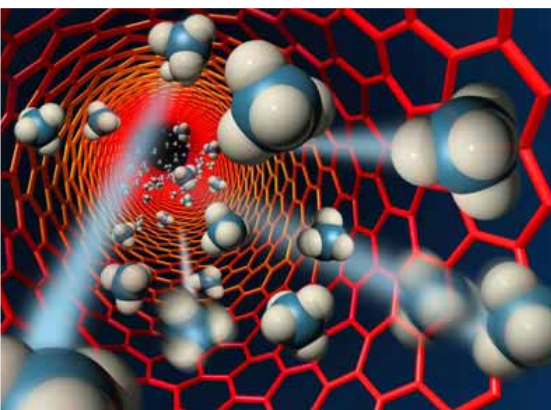


# Ride the innovation waves Nano Clean Tech

Get Training and Become a Nanotech/Clean Tech Professional



## Certified Nanotechnology and Clean Technology Professional (CNCP)

Advanced Training • State-Of-The-Art Technology • Industry Contacts

San Jose, CA

An 8-Week Intensive Training Program

Fridays & Saturdays 9:00 AM - 3:00 PM (Classroom)

Mondays & Wednesdays 7:00 PM - 9:00 PM (Online)

**T**he Certified Nanotech & Clean Tech (CNCP) program has been designed to train and prepare participants for rewarding technical and professional jobs in the emerging high growth industries of nanotechnology and clean technology.

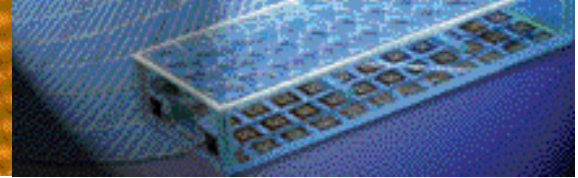
The classes will be held on Fridays & Saturdays from 9 AM to 3:00 PM, which will include lectures, group discussions and real life case studies in the industry. In addition to classroom based learning, the program includes several industry seminars featuring guest speakers and networking opportunities with prospective employers.

The certificate program prepares students for various positions such as lab technician, research assistant, project manager, sales engineer, marketing or consultant positions in the nanotech/cleantech industries. The course will prepare qualified individuals with the training to enter the emerging Nanotechnology and Green Industry fields. The California Institute of Technology offers an apprenticeship program for exceptional graduates with experience in specific areas such as NanoBio and Solar Energy consulting.



[www.cinano.com](http://www.cinano.com)

# Nanotechnology & Clean Tech: The Next Industrial Revolution



**N**anotechnology, 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:

- Clean Tech • Chemical Industry
- 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
- Advanced Materials Distributors
- Administrators • Management consultants
- Professional Service Providers and many others.

## Certified Nanotech and Clean Tech Professional Course Schedule

(Subject to changes)

### Week 1

#### Friday:

Session 1: 9:00AM-10:30AM: Introduction to Nanoscience and Nanotechnology  
Session 2: 10:45AM-12:15PM: Nanotech & Clean Tech Business  
Session 3: 1:30PM-3:00PM: Nanobiotech & Nanomedicine

#### Saturday:

Session 4: 9:00AM-10:30AM: Nanobiotech & Nanomedicine  
Session 5: 10:45AM-12:15PM: Nanofabrications  
Session 6: 1:30PM-3:00PM: Nanofabrications

### Week 2

#### Monday:

Session 7: 7:00 PM -9:00 PM: Group Research Online Project

#### Wednesday:

Session 8: 7:00 PM -9:00 PM: Group Research Online Project

#### Friday:

Session 9: 9:00AM-10:30AM: Carbon Nanotubes  
Session 10: 10:45AM-12:15PM: Carbon Nanotubes  
Session 11: 1:30PM-3:00PM: Wind Energy

#### Saturday:

Session 12: 9:00AM-10:30AM: Nano Characterization  
Session 13: 10:45AM-12:15PM: Nano Characterization  
Session 14: 1:30PM-3:00PM: Lab: Using Scanning

## Electron Microscope

### Week 3

#### Monday:

Session 15: 7:00 PM -9:00 PM: Group Research Online Project

#### Wednesday:

Session 16: 7:00 PM -9:00 PM: Group Research Online Project

#### Friday:

Session 17: 9:00AM-10:30AM: Thin Film Photovoltaics  
Session 18: 10:45AM-12:15PM: Thin Film Photovoltaics  
Session 19: 1:30PM-3:00PM: Lab: Using Scanning Electron Microscope

#### Saturday:

Session 20: 9:00AM-10:30AM: Clean Tech Laws & Regulations  
Session 21: 10:45AM-12:15PM: GROUP PROJECT PRESENTATION  
Session 22: 1:30PM-3:00PM: GROUP PROJECT PRESENTATION

### Week 4

#### Monday:

Session 23: 7:00 PM -9:00 PM: Group Research Online Project

#### Wednesday:

Session 24: 7:00 PM -9:00 PM: Group Research Online Project

#### Friday:

Session 25: 9:00-AM3:00PM Stanford University Tour

#### Saturday:

Session 26: 9:00AM-10:30AM: Environmental Health & Safety  
Session 27: 10:45AM-12:15PM: Lab: Using Scanning Electron Microscope  
Session 28: 1:30PM-3:00PM: Lab: Using Scanning Electron Microscope

### Week 5

#### Monday:

Session 29: 7:00 PM -9:00 PM: Group Research Online Project

#### Wednesday:

Session 30: 7:00 PM -9:00 PM: Group Research Online Project

#### Friday:

Session 31: 9:00AM-10:30AM: Green Building  
Session 32: 10:45AM-12:15PM: Electric Vehicles  
Session 33: 1:30PM-3:00PM: Solar Power Purchase Agreements

#### Saturday:

Session 34: 9:00AM-10:30AM: Biofuels  
Session 35: 10:45AM-12:15PM: Biofuels  
Session 36: 1:30PM-2:30PM: Project Management  
Session 37: 2:30-3:00 Review

### Week 6

#### Monday:

Session 38: 7:00 PM -9:00 PM: Group Research Online Project

#### Wednesday:

Session 39: 7:00 PM -9:00 PM: Group Research

## Online Project

### Friday:

Session 40: 9:00AM-3:00PM Tour, TBD

### Saturday:

Session 41: 9:00AM-10:30AM: GROUP PROJECT PRESENTATION

Session 42: 10:45AM-12:15PM: GROUP PROJECT PRESENTATION

Session 43: 1:30PM-3:30PM: FINAL EXAM

**Saturday: One week after program GRADUATION**

## CNCP Certification: Why?

Nanotechnology and clean tech are emerging high growth industries. According to the National Science Foundation (NSF), nanotechnology will be a trillion dollar business by the year 2020, and about 1 million employees will be required in U.S. alone. Clean technology, which is partly an application of nanotechnology, had a revenue growth from 55 billion in 2006 to 77.3 billion in 2007, a 40% annual increase.

The time to enter these fast growing industries is now, and the CNCP certification program is designed to help you do just that. This program is developed in a close association with the industry, so that you receive the required body of knowledge and skills that you could actually use.

The certification adds to your professional credibility, and increases your marketability to an employer or a customer. Furthermore, it tells a potential employer that you are committed to the field, trainable, and distinguishes you from other candidates.





### 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:

- Clean Tech Institute

## TESTIMONIALS

• *“The Certified Nanotech and Clean Tech Professional training course was a great learning experience. The weekly speakers are experts in their fields and presented their subject matters with passion. I regularly felt inspired to delve deeper into presented subject matter in order to apply my skills in new areas.*

*This experience was a revitalizing experience when I most needed fresh inspiration and new ideas. I would highly recommend the course to anyone interested in Nanotechnology or green tech. It will improve their frequency!* “

**Heidi Miller**, CNCP Graduate, Los Angeles, CA

• *“The course is very inspirational it shows you that the worlds of science and business still have a lot of questions left to answer.”*

**Michael Burns**, CNCP Graduate, Hollywood, 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

• *“This program provided a very good fundamental understanding of nanotechnology and clean technology. I personally enjoyed the opportunity to visit the CNSI lab and the speakers from industry. The networking opportunities and unique experiences from this program are what made this program extremely valuable to me and I would not hesitate to take it again!”*

**W. James Schada**, CNCP Graduate,  
Los Angeles, 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 Ciochina**, Dean, Applied Science &  
Technology, San Joaquin Delta College Stockton, CA

• *“Excellent job. I enjoyed the education.”*

**Robert Le Moynes**, CNCP Graduate, Running  
Springs, 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 myself have learned a great deal from attending this program as well as the whole conference. Visiting the nano-characterization lab at Stafford University is an eye-opening experience for me too.”*

**Dr. Guangqiang Jiang**, Director, Materials &  
Mechanical Engineering, Alfred Mann Foundation for  
Scientific Research, Santa Clarita, CA

• *“The workshop was relevant to my job responsibilities and interests today”*

**Dr. Gary Edson**, CEO NanoPharmatix, Walnut  
Creek, CA

• *“I thoroughly enjoyed the CNCP program because of broad spectrum presented in the nanotech and clean tech fields. The clean tech portion, I believe, should be taught more widely because it’s so relevant to our current world issues at energy, etc. Ideally, the course should be expanded to, and offered at the university level, not only to increase the availability of the course, but produce more professionals/students in these needy fields.*

*Overall, I can only say positive things about the CNCP course because it provides tremendous opportunity and a guided pathway to the clean tech and nanotech fields. Basically a great look into frontier technologies and problem solving current issues of energy.”*

**Stephen Hsu**, CNCP Graduate, Areadra, CA

• *“An excellent, broad overview of the breadth of the nanotech and cleantech industries, the course delves into enough detail to thoroughly expose students to the variety of possibilities. Without an advanced degree, the course is challenging but adapted to all levels so everyone gains knowledge.*

*The opportunities to tour labs and see the latest tech adds to the experience as well. Add to that the network possibilities and I can say the value is more than worth the tuition.”*

**M-L Aaltonen**, CNCP Graduate, Los Angeles, CA

### 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. <http://www.ianano.org>

### California Institute of Nanotechnology

The Institute’s mission is to conduct research and development and provide workforce education and training in nanotechnology. <http://www.cinano.com>

### Clean Tech Institute

Provides expert management consulting Services on strategic planning, corporate development, business positioning, and capital funding assistance in the emerging clean tech industry. The Institute provides workforce training as well as facilitating the deployment and use of clean tech solutions by business, government, universities and other institutions.

<http://www.cleantechinstitute.org>



## VENUE

### California Institute of Nanotechnology

1290 Parkmoor Avenue  
San Jose, CA 95126 USA  
Tel: 408-280-6266  
Fax: 408-280-6255  
info@cinano.com  
[www.cinano.com](http://www.cinano.com)

Please complete the following Preliminary Application  
fax to: **408.280.6255**  
mail to: **California Institute of Nanotechnology**  
**1290 Parkmoor Avenue, San Jose, CA 95126**

## Preliminary Application

### Certified Nanotechnology and Clean Technology Professional (CNCP)

#### San Jose

(A 6-Week Intensive Training Program)

Tuition: \$3,995

A Non-Refundable Registration fee \$395 is required upon acceptance into program.

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

First Name: \_\_\_\_\_ M.I. \_\_\_\_\_

Last Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Mail-Stop/Dept: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

ZIP/Postal Code: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Cell Phone \_\_\_\_\_

E-Mail: \_\_\_\_\_

#### Your qualifications and working experience:

\*Your highest degree of formal education

AA  Bachelor  Master  MBA  PhD

Other: \_\_\_\_\_

\*Years of working experience

1-5 years  6-10 years  11-15 years  16-20 years

21-25 years  ≥ 26 years

Industry you are in: \_\_\_\_\_

#### Work Status

Employed  Self-employed  Not employed

Tenure at your current or (if unemployed) last employer:

\_\_\_\_\_ Years \_\_\_\_\_ Months

If unemployed, please check one:

0-3 months  3-6 months  6-12 months

12-18 months  18-24 months  ≥ 2 years

#### Veteran Status:

Yes, ≤ 180 days  Yes, ≥ 180 days  No

Do you have an employment training Account (ETA)?

Yes  No

#### Participation at One-Stop Training Program:

TAA  NAFTA-TAA  Veterans' DVOP/LVR

Veterans' Workforce Investment Programs

Other non-WIA Program \_\_\_\_\_

#### Citizen:

U. S. Citizen  Permanent Resident

Other: \_\_\_\_\_

#### Financial Aid

- Trade Adjustment Act (TAA): Individuals who qualify under this DOL funding program may use up to \$10,000 of their Individual Training Account to pay for the program.

- Veteran Status: Military veterans will qualify for federal assistance to help offset the total registration fee.

- Private Severance Pay: Dislocated workers may use their severance pay to meet registration fee requirements.

- Financing Option: The Institute offers affordable education loan.

**Payment PLAN A:** If pay in lump sum, get 20% discount (\$2,880, a savings of \$720)

**Payment PLAN B:** 5% Discount \$285 per month for one year

**Payment PLAN C:** No Interest \$200 per month for 18 months

**Payment PLAN D:** 30 Months at 10% interest

\$50 for 3 months

\$100 for 3 months

\$153.49 for 24 months

Co-managed by



<http://cinano.com>

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<http://cleantechinstitute>



International Association  
of Nanotechnology

<http://ianano.org>



<http://greenzebrajobs.org>

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[www.cinano.com](http://www.cinano.com)

*This project is funded in part by the President's High Growth Job Training Initiative under the U.S. Department of Labor - ETA. \$1.5 million or approximately 40% of the total cost of this program is financed with Federal Funds. Auxiliary aids and services are available upon request to individuals with disabilities.*