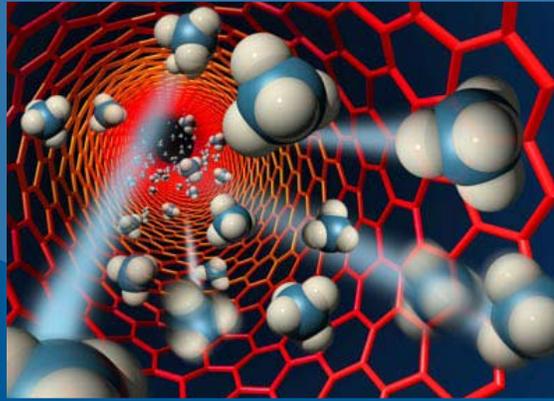


Ride the innovation waves Nano Clean Tech

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

January 15 - March 5, 2011
March 19 - May 7, 2011

An 8-Week Intensive Training Program
Saturdays 9:00 AM - 5:30 PM (Classroom);
Wednesdays 7:00 PM - 9:00 PM (Online)

The 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.

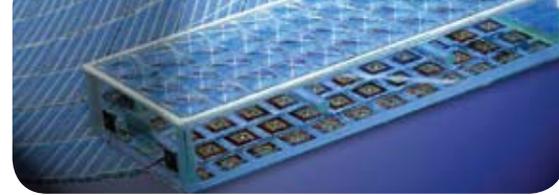
The classes will be held on Saturdays from 9 AM to 5:30 PM, which will include lectures, group discussions and real life case studies in the industry. In addition to classroom based learning, the program includes several industry seminars featuring guest speakers and networking opportunities with prospective employers. The CNCP program also includes a laboratory practical component where students will become familiar with working on a sophisticated Scanning Electron Microscope, a “must-have” instrument in the nanotechnology industry.

The certificate program prepares students for various positions such as lab technician, research assistant, project manager, sales engineer, marketing or consultant jobs in the nanotech/cleantech industry.



www.cleantechinstitute.org

Nanotechnology & Clean Tech: 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 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 change without notice)

Week 1 Tuesday :

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: Nanomaterials Carbon Nanotubes
Session 4: 3:30PM-5:30PM: Research Project

Week 2 Tuesday :

Session 5: 7:00PM–9:00PM: Group Research Project-Online
Thursday:
Session 6: 7:00PM–9:00PM: Group Research Project - Online
Saturday:
Session 7: 9:00AM-10:30AM: Surface & Thin Film
Session 8: 10:45AM-12:15PM: Nanomaterials Environmental Health Safety
Session 9: 1:30PM-3:00PM: Nanofabrications 1
Session 10: 3:30PM-5:30PM: Nanofabrications 2

Week 3 Tuesday :

Session 11: 7:00PM–9:00 PM: Group Research Project - Online
Thursday:
Session 12: 7:00 PM -9:00 PM: Group Research Online Project

Saturday:

Session 13: 9:00AM-10:30AM: Nano Characterization 1
Session 14: 10:45AM-12:15PM: Nano Characterization 2
Session 15: 1:30PM-3:00PM: Lab: Using Scanning Electron Microscope
Session 16: 3:30 PM-5:30PM: Lab: Using Scanning Electron Microscope

Week 4 Tuesday:

Session 17: 7:00PM–9:00PM: Group Research Project - Online

Thursday:

Session 18: 7:00PM–9:00PM: Group Research Project - Online

Saturday:

Session 19: 9:00AM-10:30AM: Nanobiotech & Nanomedicine
Session 20: 10:45AM-12:15PM: Research Project
Session 21: 1:30PM-3:00PM: Lab: Using Scanning Electron Microscope
Session 22: 3:30PM-5:30PM: Lab: Using Scanning Electron Microscope

Week 5 Tuesday:

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

Thursday:

Session 24: 1:00 PM - 4:00 PM: Job Fair
Session 25: 7:00PM–9:00PM: Group Research Project- Online

Saturday:

Session 26: 9:00AM-10:30AM: Applications of Nanotechnology - case study
Session 27: 10:45AM-12:15PM: Research project
Session 28: 1:30PM-3:00PM: Lab Using Scanning Electron Microscope
Session 29: 3:30PM-5:30PM: Lab Using Scanning Electron Microscope

Week 6 Tuesday:

Session 30: 8:00 AM - 5:00 PM: Thin Film Photovoltaic 2009 (Industry Seminar)

Wednesday:

Session 31: 8:00 AM - 5:00 PM: Thin Film Photovoltaic 2009 (Industry Seminar)

Thursday:

Session 32: 7:00PM-9:00PM Group Research Project: Online

Saturday:

Session 33: 9:00AM-10:30AM: Clean Tech Emerging Technologies
Session 34: 10:45AM-12:15PM: Thin Film Photovoltaics Principle & Application
Session 35: 1:30PM-3:00PM: Biofuels
Session 36: 3:30PM-5:30PM: Research Project

Week 7 Tuesday :

Session 37: 7:00PM–9:00PM: Group Research Project- Online

Thursday:

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

Saturday:

Session 39: 9:00AM-10:30AM: Electric vehicles
Session 40: 10:45AM-12:15PM: Green Building Initiatives
Session 41: 1:30PM-3:00PM: Clean Tech laws & regulations
Session 42: 3:30PM-5:30PM: Research Project

Week 8 Wednesday:

Session 43: 7:00PM–9:00PM: Review

Thursday:

Session 44: 7:00PM–9:00PM: Group Research Project- Online
Session 45: 1:30PM-3:30PM: Review

Saturday: (Final Exam)

Session 46: 9:00AM-10:30AM: Group Presentation
Session 47: 10:45AM-12:15PM: Group Presentation
Session 48: 1:30 PM-3:30: FINAL EXAM
Session 48: 3:30PM-5:30PM: FINAL EXAM

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 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 and you are 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

MANAGED BY:

- The CleanTech Institute

SPONSORED BY

- The International Association of Nanotechnology

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 Moyne, 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 Staford 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



Our cleantech career center provides career support to those who seek job opportunities in the clean technology field.

Our services include:

- Job postings both on-site & online
- Computers for job searching
- Career advising services
- Cleantech Workforce Seminars
- Resume Review



Students are at job hunting at the career center

Please complete the following Preliminary Application

fax to: **510.657.6265**

mail to: **The CleanTech Institute**

49000 Milmont Drive, Fremont, CA 94538

Preliminary Application

Certified Nanotechnology and Clean Technology Professional (CNCP)

Fremont, CA

(A 8-Week Intensive Training Program)

Tuition: \$3,995.00

A Non-Refundable Registration fee \$495.00 is required upon acceptance of 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 qualification 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 WIA Veterans' DVOP/LVR

Veterans' Workforce Investment Programs

Other non-WIA Program _____

Citizen:

U. S. Citizen Permanent Resident

Other: _____

Financial Aid

- Individuals who have government funding under Trade Adjustment Act (TAA) may use their Individual Training Account to pay for the program.

- Qualified individuals may borrow student loans of up to \$3,000.00 at low interest rates, which can be paid back in installments over 12 months.

Supporting Partners:



<http://cinano.com>



International Association
of Nanotechnology

<http://ianano.org>



Corporate Headquarters

49000 Milmont Drive,
Fremont, CA 94538 USA

Tel: 510.657.6266

Fax: 510.657.6265

E-mail: info@cleantechinstitute.org

www.cleantechinstitute.org