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.
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  

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
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

**Week 4 Tuesday:**
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 5 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 6 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 7 Tuesday:**
Session 29: 12:00PM-2:00PM: Electric vehicles Photovoltaic 2009 (Industry Seminar)
Wednesday:
Session 30: 12:00PM-2:00PM: Electric vehicles Photovoltaic 2009 (Industry Seminar)
Thursday:
Session 31: 3:30PM-5:30PM: Biofuels
Session 32: 6:00PM-8:00PM: Research Project

**Week 8 Wednesday:**
Session 38: 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.
“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 Stanford 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
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
Tenature 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

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
http://ianano.org

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