

# CleanTech Institute



## Your partner in launching a new career in clean energy

- Cutting edge clean technology training
- Comprehensive advanced certificate programs
- Instructors are experienced practicing industry experts
- Teaching practical hands-on skills
- Monthly industry networking events
- Career advising and support services

### **CERTIFICATE PROGRAMS:**

Over 13-16 weeks

- Certified Clean Tech Technician
- Certified Clean Tech Engineer
- Certified Photovoltaic Systems Specialist
- Certified Energy Efficiency Auditor
- Certified Biofuels Energy Specialist
- Certified Electric Vehicle Technician
- Certified Clean Tech Project Manager
- Certified Nanotech & Clean Tech Professional

### **SHORT COURSES:**

Over 3 days

- Photovoltaic Systems: Design & Management
- Thin Film Photovoltaics: Technology
- Wind Energy: Design & Management
- Biofuels: Systems & Management
- Battery: Technology
- LED: Systems Technology
- Clean Tech: Project Management
- Electric Vehicles: Systems & Operations
- Clean Tech: Laws & Regulations
- Nanomaterials: Energy Applications



## About CleanTech Institute

The Clean Tech Institute (“CTI”) is dedicated to fostering scientific research and providing professional training in clean tech applications and sustainability. Our goal is to train a new workforce to supply the growing clean technology industry.

The Clean Tech Institute and its sister non-profit organization, the International Association of Nanotechnology (IANANO) have extensive experience in the design, delivery, and implementation of professional training curricula that meet the needs of the industry.

Over the past two years, with funding from a grant under our President’s High Growth Job Training Initiative, IANANO and CTI have trained more than 300 professional managers in nanotech and clean tech.

CTI and IANANO are at the forefront of the clean



Outside the CleanTech Institute in Fremont, CA.

tech revolution by providing professional workshops and seminars to train scientists and business professionals. One particularly successful course has been ‘Business Re-Engineering in the Global Economy’ training professionals how to use nanotechnology and clean tech applications to make existing businesses more competitive in the global economy.



## Clean Tech Training Programs

The Clean Tech Institute offers a complete spectrum of workforce training programs. Our goal is to give our graduates the proper skills to launch a new career in clean and renewable energy technology, production and management.

### Topics Include:

**Solar photovoltaic**

**Wind energy**

**Energy Efficiency**

**LED lighting technology**

**Batteries technology**

**Electric car**

## Benefits of our training programs:

- Provides a comprehensive knowledge base, focusing on specific applicable skills needed in the industry
- Practical experience from our hands-on workshops
- Monthly industry meetings to help our students network with prospective employers
- Job board and career advisory services available in-house to assist students in their job search
- Weekly seminars in clean tech job opportunities and career advisory support services
- Faculty includes professors from UC Berkeley, Stanford University, NASA Ames, Santa Clara University, San Jose State University, UC Davis, UCLA, UC Riverside, and subject experts from each industry, i.e. working professionals from solar companies, biofuel companies, LED light companies, electric car companies.

# Clean Technology Certifications:



## Certified Clean Tech Technician

**Length:** 16 Weeks

**Focus:** The Certified Clean Tech Technician (CCTT) course is an intensive certificate program designed to train a new generation of technicians to work in the research, development and manufacturing process of clean tech products such as thin film photovoltaic, wind turbines, nanomaterials batteries and energy efficient products. The program includes workshops and hands-on installation of thin film photovoltaic systems.



## Certified Biofuels Energy Specialist

**Length:** 13 Weeks

**Focus:** The Certified Biofuels Energy Specialist (CBES) course is an intensive certificate program designed to train individuals who wish to enter the job market with the skills to work in the production and quality control of biofuels and biodiesels. Student technicians will learn the practical design criteria, installation guidelines, materials & resources, safety issues, maintenance and troubleshooting of biofuels manufacturing equipment and processes to work in the production and quality control of biofuels and biodiesels.



## Certified Photovoltaic Systems Specialist

**Length:** 16 Weeks

**Focus:** The Certified Photovoltaic Systems Specialist (CPSS) course is an intensive certificate program designed to train a new generation of photovoltaic specialists focusing on the product development, design and manufacturing of photovoltaic systems. The hands-on workshops are taught by experienced instructors and seasoned solar energy specialists in the industry.



## Certified Electric Vehicle Technician

**Length:** 16 Weeks

**Focus:** The Certified Electric Vehicle Technician (CEVT) is designed to train a new generation of electric vehicle specialists to work in manufacturing as well as in the repair and maintenance of electric vehicles. This course includes hybrid engines, power inverter systems, electric propulsion systems, electric car and hybrid climate control systems, belted alternator starter systems, batteries and energy management systems. Hands-on workshops will include the high voltage vehicle safety, basic repairs and maintenance of a hybrid and electric car.



## Certified Clean Tech Engineer

**Length:** 13 Weeks

**Focus:** The Certified Clean Tech Engineer (CCTE) course is an intensive certificate program designed to train engineers and technical managers highly skilled in the design, applications and manufacturing processes of clean tech systems products including: thin film photovoltaics, wind turbines, energy efficiency systems and nanomaterial batteries used in electric vehicles. The program includes a hands-on lab component covering the practice and design of thin film photovoltaic systems.



## Certified Clean Tech Project Manager

**Length:** 13 Weeks

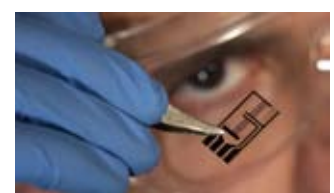
**Focus:** The Certified Clean Tech Project Manager (CCPM) program is designed to train Project Managers in the clean tech industries. The course includes lectures, group discussions and case studies in solar energy, wind, energy efficiency, nanomaterial batteries, electric vehicles, and laws and regulations related to the emerging clean tech industry. In addition, the program includes group project presentations, industry seminars, networking opportunities and field trips to a major solar product company and a leading solar farm in California.



## Certified Energy Efficiency Auditor

**Length:** 8 Weeks

**Focus:** The Certified Energy Efficiency Auditor (CEEA) course is a certificate program that gives individuals the knowledge necessary to provide homeowners an overview of energy consumption and options to save money by conserving energy. A professional auditor can use a variety of techniques and equipment to determine the energy efficiency of residential or commercial buildings.



## Certified Nanotechnology & Clean Tech Professional

**Length:** 8 Weeks

**Focus:** The Certified Nanotech & Clean Tech Professional is a certificate program designed to train participants for mid-level to executive management level jobs in the nanotechnology and clean technology industries. The certificate training course will equip technical and professional managers with up-to-date knowledge of emerging technologies and practical skills to further advance their career in these emerging industries. Students will demonstrate their acquired knowledge through problem solving exercises, project development and presentation.





# Clean Energy Workforce Seminars

The CleaTech Institute offers a series of informal seminars on various aspects of a job search and launching a new career in different cleantech areas.\*

- Seminar 1:  
Introduction to Renewable Energy & How to Launch a New Career In The Green Economy
- Seminar 2:  
Clean Tech Job Opportunities & How To Handle a Career Setback and to Prepare Yourself For A Bright Future
- Seminar 3:  
Career Opportunities In Photovoltaic Industry & How to Maintain a Positive Mental Attitude in Adversity
- Seminar 4:  
Career Opportunities in Energy Efficiency Industry & Networking Opportunities in Clean Tech
- Seminar 5:  
Career Opportunities in Electric Vehicles Industry & How to Use the Stimulus Funding to Further Advance Your Career Goals.

*\*Please Visit our web site for current topics and times.*



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# Professional Short Courses:

The Clean Tech Institute offers professional development short courses focusing on the latest developments in technology and business landscape suited for scientists, engineers, business development managers and senior executives working in the clean tech industry.

The faculty members are professors from UC Berkeley, Stanford University, and other academia as well as senior executives, chief scientists, chief engineers and other experts from the industry.

Short courses are offered over a 3-day period from 9:00 AM to 5:00 PM, most starting on Thursdays and ending on Saturdays from 9:00 AM to 3:00 PM.

For short courses schedule, please visit our web site:

<http://www.cleantechinstitute.org>



Our cleantech career center provides career support to those who seek job opportunities in the clean technology field. The center is located in our Fremont office and offers a range of services for job seekers.

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



## Supporting Organizations:

