

## Employment Opportunities

Construction Technology students are being prepared for entry-level employment in many high paying jobs:

- Solar Energy System Installer
- Solar and PV Installation: Roofer
- Residential Solar Sales Assistant
- Wind Field Technician
- Wind Field Service Technician
- Junior Renewable Energy Technician
- Insulation Installer
- Energy Auditor
- Carpenter
- Electrician
- Plumber
- Drywall Installer
- Drywall Taper
- Drywall Texturer
- Painter
- Acoustical Tile Installer
- Flooring Installer
- Masonry, Concrete Installer
- Roofer
- Interior and Exterior Finish Carpentry

## Further Education

Construction Technology students are prepared for further education:

- Apprenticeship Training Programs
- Solar Installation Certificate Programs
- A.S. Construction Management
- B.S. Construction Management

## Contributing Partners



For more information, call or email.

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New! in 2010

## Energy Education Center Mission Valley ROP



Mission Valley ROP's Energy Education Center (EEC) is a planned learning center for area students to learn about energy efficiency, renewable energy and conservation.

The EEC is a collaboration of industry, education and government partners, and is located at Mission Valley ROP in Fremont, CA

## Our Vision for Energy Education

The energy education center will be an energy independent building featuring solar pv, solar thermal, wind power generation, sustainable materials, energy efficient windows, and fuel cell energy demonstrations.

With the generosity of these industry partners, construction began in 2010.

**PG&E Solar Schools Grant** provided for purchase of solar panels, inverter, quick disconnects and training.

**Solyndra, Inc.** donated commercial solar pv panels, mounting equipment, connectors and technical training.

**PetersenDean, Inc.** provided roofing supplies, solar systems equipment, training in commercial and residential roofing, construction site safety, solar systems installation.

Home for the EEC is MVRP's Construction Technology program led by Mr. Stan Hearne, a licensed general contractor, with 25 years construction experience. Students built the classroom and shop pictured here.



Students learn fundamentals of electricity, carpentry, plumbing, roofing and solar systems installation. Graduates are prepared for employment or further education.

Energy Efficiency is a key part of our educational plan. Partnering with the California Youth Energy Services and industry, we provide training and employment in Energy Efficiency Audits.

## Development Plan

The EEC will be built entirely by Mission Valley ROP's Construction Technology students. Instruction includes hands-on solar photovoltaic, solar thermal, wind power generation, energy efficiency auditing, advanced construction materials, and safety procedures and practices.

### Phase1: Solar Array (2010)

Construction was completed on a 16 panel solar array. Students demonstrated system operation on June 9, 2010. Upon successful program completion several students were hired by our industry partners.



### Phase 2: Integrate Solar & Wind (2011)

Integrate Solar and Wind to power classroom and workshop. Continued program enhancement and growth.



### Phase 3: Energy Education Center (2012)

Design and build a LEED Certified energy-independent house, providing electricity needs, hot water, heating and cooling. Constructed entirely of sustainable building materials and featuring energy efficient appliances, hands-on demonstrations of energy conservation, energy efficiency, and renewable materials, the EEC will be a destination for student groups and the public.



MVRP is planning periodic media events and announcements surrounding this program. Sponsors and partners will share in the media attention.

## How to Participate

Mission Valley ROP is recruiting industry partners to play a role in helping this program achieve its full potential.

Any of the following will help your future employees get a start in the right direction:

- ☐ Wind Turbine Systems
- ☐ Inverters, Controllers
- ☐ System Monitors
- ☐ Solar PV Panels, Mounting Equipment
- ☐ Electrical Equipment
- ☐ Safety Equipment, Boots, Gloves
- ☐ Energy Efficient Building Materials
- ☐ Energy Efficient Windows
- ☐ Fuel Cells
- ☐ Energy Efficient Appliances
- ☐ Solar Thermal Systems
- ☐ Cash Grants
- ☐ Guest Speakers from Industry
- ☐ Advisory Committee Participation

### Mission Valley ROP

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