Sustainability in my Career

Issue 2 | Spring 2015

Focused Majors - Engineering, Environmental Design, Business Administration, Science

For full articles visit http://powersavecampuscpp.weebly.com/sustainability-in-my-career.html.

Sustainability in my Career spreads awareness of current sustainability projects in the professional world. It is currently being infused into a variety of careers and fields. Students should be encouraged to pursue their own actions within future careers. Please visit our website for more information and opportunities.

Internship Opportunities

JPL
http://www.jpl.nasa.gov/edu/intern/apply/

Irwindale Energy Education
https://sce.taleo.net/careersection/sce_external_campus_career_section/jobdetail.ftl
https://sce.taleo.net/careersection/sce_external_campus_career_section/jobdetail.ftl

The Broad Museum
http://www.thebroad.org/employment

Technical Tours

For up to date information and registration for a technical tour, please visit our website.

Top Left Jet Propulsion Laboratory

Bottom Left Irwindale Energy Education Center

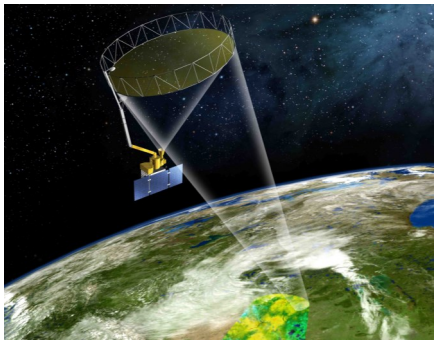
Bottom Right The Broad Museum

Jet Propulsion Laboratory

Pasadena, CA | Engineering, Science

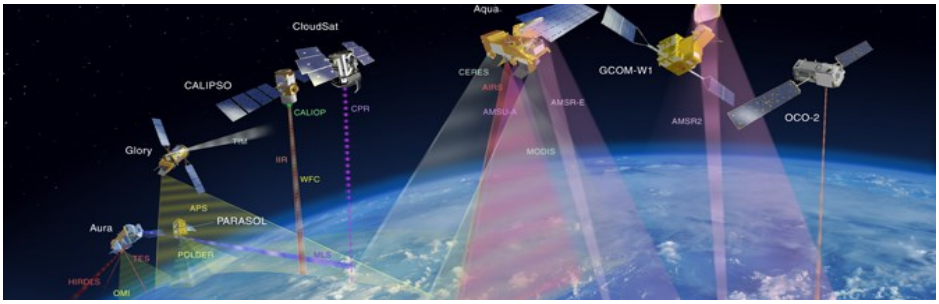
The Jet Propulsion Laboratory (JPL) is a NASA Center located in Pasadena, CA, owned by the California Institute of Technology (CalTech). Since they work under NASA you may be thinking, how does space exploration relate to sustainability? To the contrary, about one third of JPL's projects revolve around Earth (pun intended). JPL focuses much of its resources on monitoring and analyzing our own planet through projects involving satellites that measure everything from climate change to soil moisture to wind patterns. These studies are used to equip proponents of sustainability with the data necessary to determine the next steps in preventing further damage to our planet and hopefully restoring it for generations to come.

JPL's campus is home to over 5,000 employees with many different educational backgrounds and are almost constantly recruiting full-time employees along with student interns of various fields of study (link below). Regardless of your field of study, if you have a passion for looking at the "big picture" of Earth's environmental status, we encourage you to look into the opportunities that JPL has to offer.



Top Soil Moisture Active Passive

Bottom Afternoon Constellation



Edited by Jomel Bautista, Lynae Salgado, Brandon Sauer, & Arpy Kasparian

Contact us at greencampus.cpp@gmail.com.

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Irwindale Energy Education Center

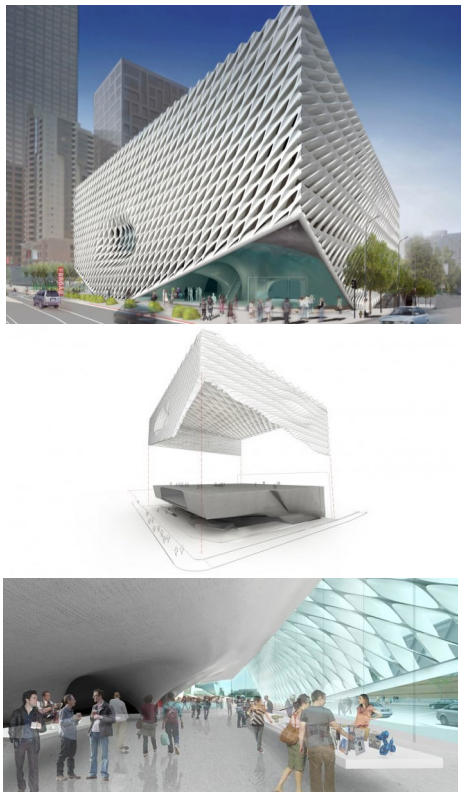
Irwindale, CA | Business Administration

The Irwindale Energy Education Center of Southern California Edison the ideal place to learn how to save energy and money through classes, workshops, demonstrations, technical consultations, and exhibits. This full-service facility is complete with classrooms, meeting rooms, and unique hands-on exhibits and dis-plays. Visitors can interactively learn by taking a class, exploring their Smart Energy Experience exhibit, visiting their full-functioning Foodservice Technology Center, and even by parking under their Solar Canopy.

Classes and workshops at the Irwindale Energy Education Center are taught by renowned experts and include topics such as commercial and industrial lighting, heating and air conditioning systems, energy management tools, sustainable technologies, and much more. Classes are open to the public and free of charge! The Smart Energy Experience exhibit allows you to explore the cleaner, smarter, and more reliable future of energy through the latest tools and technologies. Visitors enter realistic settings such as kitchens, living rooms, and garages where smart meters, smart appliances, and energy management systems are incorporated into simulations that show how these technologies interact and respond to energy demand. These demonstrations show how smart systems can empower people to better manage their energy use, save money, and reduce demand on the electric grid. Self-guided and guided tours are available Monday through Friday.

The Foodservice Technology Center showcases the latest energy efficient commercial foodservice technologies including combination ovens, exhaust hoods, griddles, fryers, connectionless steamers, and much more. This energy-efficient commercial kitchen is used to demonstrate cooking techniques, compare cooking technologies, and teach energy-efficient kitchen operations. The Photovoltaic Powered Electric Vehicle Charging Canopy uses the power of the sun to fuel cars.

Top Food Technology Display
Bottom Smart Grid Meter



Top Exterior of Building
Middle Concept Design
Bottom Render

The Broad Museum

Los Angeles, CA

Environmental Design

Located across Grand Avenue from the Walt Disney Concert Hall, the Broad Museum near in completion. Designed by Diller Scofidio + Renfro, the contemporary art museum will open this fall. The building "veil and vault" concept uses concrete, steel and fiberglass reinforced concrete for an overall 120,000 sq. ft building. The "veil" is a honey-comb like structure of Glass Fiber Reinforced Concrete (GFRC) that gently lifts in the entry points welcoming guests. The "vault" is an impressive 36 million pounds of concrete that moves in soft curves but carries a heavy mass throughout the en-tire building. The light and heavy components are always in view and help direct the user throughout the space. The building is aimed for LEED Silver certification. It implemented simple ways of sustainability such as electric car charging stations, bike parking, high-efficiency plumbing fixtures, and rain runoff into street level gardens. The building is placed in close proximity to public transportation. In addition, a complimenting streetscape public amenity that includes a plaza, restaurant and a new mid-block traffic signal and crosswalk connecting The Broad to the surrounding sites. This approach develops a diverse environment for people to enjoy and not have to drive from location to location.

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