

Subject: Energyfolks: Large Solar, Rate Design, CFLs, jobs
Date: Wednesday, April 28, 2010 11:28 AM
From: Gil Masters <gmasters@stanford.edu>
To: energyfolks@lists.stanford.edu
Category: Stanford

1. Quotes for Today
2. Stanford Spring Energy Seminars: Today Large Scale Solar
3. STANFORD: Lunch Series on Cleantech Investments -- 12: - 1: pm, Friday, April 30th
4. Car 2.0 - The Race for Electric Transportation Leadership: Weds May 5 11am-6pm, at PG&E in SF
5. New LBNL report: "The Impact of Rate Design and Net Metering on the Bill Savings from Distributed PV for Residential Customers in California."
6. The Final Report of the Compact Fluorescent Lamps Market Effects

THEN JOBS JOBS JOBS

1. Two Quotes for Today:

NYT 2-21-10 Robt Frank, Cornell U. WE don't know how much hotter the planet will become by 2100. But the fact that we face "only" a 10 percent chance of a catastrophic 12-degree climb surely does not argue for inaction. It calls for immediate, decisive steps.

Most people would pay a substantial share of their wealth — much more, certainly, than the modest cost of a carbon tax — to avoid having someone pull the trigger on a gun pointed at their head with one bullet and nine empty chambers. Yet that's the kind of risk that some people think we should take.

NYTimes 4-28-10, Tom Friedman: I'd love to see the president come out, guns blazing with this message:

"Yes, if we pass this energy legislation, a small price on carbon will likely show up on your gasoline or electricity bill. I'm not going to lie. But it is an investment that will pay off in so many ways. It will spur innovation in energy efficiency that will actually lower the total amount you pay for driving, heating or cooling. It will reduce carbon pollution in the air we breathe and make us healthier as a country. It will reduce the money we are sending to nations that crush democracy and promote intolerance. It will strengthen the dollar. It will make us more energy secure, environmentally secure and strategically secure. Sure, our opponents will scream 'carbon tax!' Well, what do you think you're paying now to OPEC? The only difference between me and my opponents is that I want to keep any revenue we generate here to build American schools, American highways, American high-speed rail, American research labs and American economic strength. It's just a little tick I have: I like to see our spending build our country. They don't care. They are perfectly happy to see all the money you spend to fill your tank or heat your home go overseas, so we end up funding both sides in the war on terrorism — our military and their extremists."

2. STANFORD Spring 2010 Energy Seminars

Wednesdays, 4:15-5:15, Bldg 420, Room 40

April 28: Large-scale Solar Technology and Policy

Margot Gerritsen, Associate Prof. Energy Resources Engineering, Stanford

May 5: Nuclear Power: How, Why, Barriers

Prof. Burton Richter, Director Emeritus, SLAC national Accelerator Laboratory

...book signing ("Beyond Smoke and Mirrors") and reception following the talk

May 12: A Vision for Transitioning Towards Sustainable Transportation

Jason Wolf, Business Development for North America Better Place

May 19: Does Biochar Deliver Carbon-Negative Energy?

Johannes Lehmann, Assoc. Professor of Soil Biogeochemistry and Soil Fertility Management, Cornell

May 26: Nanostructuring for Efficient Energy Conversion

Stacey Bent, Co-Director, Energy Frontier Research Center, Stanford

June 2: Enacting Climate Policy

Hal Harvey, Chief Executive Officer, ClimateWorks

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3. STANFORD: Lunch Series on Cleantech Investments -- 12: - 1: pm, Friday, April 30th

Marianne Wu, Partner Mohr Davidow Ventures

Y2E2 Room 155 (Green Atrium)

Come hear about a case study of a cleantech plan and the considerations of clean energy investments.

Lunch provided. Please RSVP at [http://spreadsheets.google.com/viewform?](http://spreadsheets.google.com/viewform?hl=en&formkey=dHM3S1hPeGtsRnp2UC1VNzBtbEJmY3c6MQ)

[hl=en&formkey=dHM3S1hPeGtsRnp2UC1VNzBtbEJmY3c6MQ](http://spreadsheets.google.com/viewform?hl=en&formkey=dHM3S1hPeGtsRnp2UC1VNzBtbEJmY3c6MQ)

For Stanford students only. Please contact Angela Kwok (angkwok@stanford.edu) if you have any questions or comments.

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4. Car 2.0 - The Race for Electric Transportation Leadership: Weds May 5 11am-6pm, at PG&E in SF

Berkeley-Stanford CleanTech Conference (BSCC) announces the fifth in a continuing series of focused conferences highlighting clean technology solutions to address multifaceted global energy challenges. This conference will provide information on the past, current and future state of the electric transportation industry from technology, policy, and US-China business perspectives. For participants, this is an excellent opportunity to network and discover opportunities in this rapidly emerging field. The conference will be held at PG&E Headquarters in downtown San Francisco on May 5th, 2010. Last year the sold-out conference drew over 300 attendees comprised of 30% students and 70% professionals including financiers, start-up entrepreneurs, policymakers, law firms, non-profits. Dian M. Grueneich, Commissioner of the California Public Utilities Commission, will be delivering the keynote address.

Theme: Car 2.0 - The Race for Electric Transportation Leadership

Date: Wednesday, May 5, 2010

Time: 11AM - 6PM

Location: PG&E General Office Conference Center, 77 Beale Street, San Francisco, CA

Tickets for the event are on sale now. For more information, please visit <http://bscleantech.org> <<http://bscleantech.org/>> .

Keynote Address

Dian Grueneich, Commissioner of CPUC

Panel 1: Technology and Infrastructure Development

Mark Duvall, Director at Electric Power Research Institute

John Boesel, Pres/CEO at Calstart

Saul Zambrano, Director Integrated Demand Side Management Product Portfolio at PG&E

Panel 2: China - Opportunities and Challenges

Eric Wesoff, Journalist at GreenTech Media

Jit Bhattacharya, CEO of Mission Motors

Roland Hwang, Transportation Program Manager at the Natural Resource Defense Council

Marc Gottschalk, Partner at Wilson Sonsini Goodrich & Rosati

Luca Erceg, President, CEO & Founder of Simbol Mining Corp.

Panel 3: Policy and Economics of Electric Transportation

Lee Schipper, Professor at Stanford University

Mike Granoff, Head of Oil Independence Policies at Better Place

Bob Hayden, Clean Transportation Advisor to SF Government

Rod Diridon, Executive Director of Mineta Transportation Institute (MTI)

Eric Toomre, Architect of the bipartisan proposed American Electric Vehicle Manufacturing, or e-Drive Bill (H.R. 4399)

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5. New LBNL report: "The Impact of Rate Design and Net Metering on the Bill Savings from

Distributed PV for Residential Customers in California.”

Though net metering has played an important role in jump-starting the PV market in the U.S., alternative compensation methods are under consideration in some jurisdictions. Moreover, one inherent feature of net metering is that the value of the utility bill savings it provides to customers with PV depends heavily on the structure of the underlying retail electricity rate, as well as on the characteristics of the customer and PV system. Consequently, the bill-savings value of net metering – and the impact of moving to alternative compensation mechanisms – can vary substantially from one customer to the next. For these reasons, it is important for policymakers and others that seek to support the development of distributed PV to understand both how the bill savings benefits of PV varies under net metering, and how the bill savings under net metering compares to savings associated with other possible compensation mechanisms.

To advance this understanding, we analyze the bill savings from PV for residential customers of California’s two largest electric utilities, PG&E and SCE. The analysis is based on hourly load data from a sample of 215 residential customers, matched with simulated hourly PV production for the same time period.

We first compute the bill savings for each customer based on existing net metering rules and retail electricity rates. Under current net metering rules and retail electricity rates, the median bill savings per kWh of PV generation ranges from \$0.19-\$0.25/kWh for the PG&E customers in our sample, and from \$0.19-\$0.24/kWh for the SCE customers, where the ranges reflect differing assumptions about the size of the PV system relative to the customer’s load. However, the distribution in bill savings value across customers is wide, with higher-usage customers receiving substantially higher-valued bill savings, as a result of the inclining block structure used within the utilities’ residential retail rates.

We then compare the value of the bill savings under net metering to three potential alternative compensation mechanisms, each of which provides compensation for some or all PV production at prices based on the state’s Market Price Referent (MPR). In most cases, these alternatives yield bill savings that are lower than under net metering, though the magnitude of the reduction differs among the three alternatives and across customers. Of the compensation mechanisms considered, the lowest bill savings would occur under a policy in which all PV generation is compensated at MPR-based prices. The value of bill savings received under this MPR-based feed-in tariff

is calculated to be 32-54% lower, on average, than the compensation received under current net metering rules. For high-usage customers, the reduction in bill savings under the MPR-based feed-in tariff would be substantially greater than these average figures.

The full report can be downloaded from:
<http://eetd.lbl.gov/ea/emp/re-pubs.html>

A PowerPoint presentation that summarizes key findings can be found at:
<http://eetd.lbl.gov/ea/emp/emp-ppt.html>

We appreciate the funding support of the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (Solar Energy Technologies Program) and the Office of Electricity Delivery and Energy Reliability (Permitting, Siting, and Analysis Division). We apologize in advance for any cross-postings.

All the best,

Naïm Darghouth, Galen Barbose, and Ryan Wiser
Lawrence Berkeley National Laboratory

6. The Final Report of the Compact Fluorescent Lamps Market Effects

http://uc-ciee.org/pubs/ref_market.html <http://uc-ciee.org/pubs/ref_market.html>

The report and the appendices are the last two items under Compact Fluorescent Lamps (CFLs).

This study represents one of the largest, indepth evaluation studies of the market effects of a specific technology:

The study included telephone surveys with approximately 2,500 end-use customers, telephone interviews with about 600 CFL retailers and manufacturers, in-home audits of 269 homes and comprehensive retailer lighting shelf stocking inventories in 185 stores (representing over one million bulbs). The analysis included qualitative and quantitative data approaches, including descriptive statistics and multivariate regression modeling techniques. Primary research was conducted in California and in three comparison states selected to serve as a baseline for California. The customer survey and in-home audit data were combined with primary data from 11 additional states (in a collaborative effort conducted with other program states, and analyzed in a single set of models) as part of the analysis.

In addition to their key findings, the authors provide recommendations on future programs, market effects evaluation protocols, and future market effects evaluation work.

JOBS JOBS JOBS JOBS

1. **California Energy Efficiency Industry Council: Associate, SF Bay Area**
2. **Carbon-Management (3 positions): ESP Environment & Energy, Boulder, CO**
3. **Summer Intern positions at Sandia National labs**
4. **Energy Efficiency Engineers: CLEAResult Consulting, Texas & OK**
5. **Policy Fellowships with Americans for Energy Leadership, DC**
6. **Lead Analyst, Technical Specialist: Ecos, Durango, CO**
7. **Solar Water Heating System Sales, Also Summer Intern, FAFCO, Chico, CA**
8. **Regulatory Analyst, CA Public Utilities Commission, SF**
9. **Sustainability Education Internship, Durango, Colorado**
10. **Cody's New Energyenvrjobs Twitter Job List: Dozens of jobs**
11. **United Technologies Research Center: Sr. Staff Scientist Energy Systems, E. Hartford, CT**
12. **Green Building Energy Modeling Professionals: The Cadmus Group, VA or UT**
13. **Three Senior-level Economists/Researchers: Climate Protection Initiative, CA**
14. **Environmental Designer: Atelier Ten, SF**
15. **Energy Modelers and Sustainability/LEED Consultants: Cobalt Engr, Canada**
16. **Sr. Building Performance Analyst, Lord, Aeck & Sargent Architecture, Atlanta**

1. California Energy Efficiency Industry Council: Associate, SF Bay Area

The California Energy Efficiency Industry Council (Efficiency Council) is a 501(c)(6) nonprofit corporation and business association of the energy efficiency industry. The Efficiency Council's mission is to support appropriate energy efficiency policies, programs, and technologies that create sustainable jobs and foster long-term economic growth, stable and reasonably priced energy infrastructures, and environmental improvement. Our member companies provide energy efficiency services and products in California and employ thousands of people supporting the efficient use of energy in California and throughout the world. The Efficiency Council was formed in July of 2009 and currently has 35 member companies, with plans to grow to 100 members. For more information, visit our website, www.energycouncil.org <<http://www.energycouncil.org/>> .

About the Position:

The Efficiency Council has an immediate opening for a highly motivated Associate to support a small but growing organization supporting the efficiency industry in California. The Associate will work closely with the Executive Director in activities related to policy tracking and promotion, organizational operations, and member communication and support for the Efficiency Council. This position

represents an entrepreneurial, challenging, and enjoyable opportunity for the right individual.

The following is a list of expected duties and responsibilities; the Associate will work with the Executive Director and Board to prioritize work among these activities.

- Track and monitor policy developments in California, the West, and nationally that affect the efficiency industry in California. Attend and summarize meetings, workshops, and hearings on relevant topics at various forums, including the California Public Utilities Commission, California Energy Commission, California Air Resources Board, and California Legislature, and at times testify or comment on behalf of the Efficiency Council.
- Organize member participation in policy and educational initiatives, including member comments in policy forums and development of case studies of member companies to share stories of the growing clean energy economy with policymakers and the public.
- Develop and compile content for semimonthly member newsletter, which covers Council updates, policy updates, industry events, and business opportunities for members.
- Develop and coordinate intern/recruiting program for member companies.
- Organize member events, such as the annual meeting, trainings, webinars and socials.
- Support administration of the Efficiency Council through activities such as developing content for and updating the Council website, maintaining membership databases and Efficiency Council records, assisting in information technology support, and streamlining operating procedures. Assist in organizing monthly Board meetings and member committee meetings.

Requirements and Core Competencies

In addition to possessing the below skills, knowledge and qualities, the candidate should demonstrate the fundamental ability to work well with others in a professional manner.

- Bachelor's degree in business, public policy, engineering, economics, natural resources, or other relevant area.
- Preferably at least 2 years of experience in a business and/or non-profit office environment.
- Exposure to energy policy in California and knowledge of the energy efficiency industry and/or related areas are preferred, but not required.
- Commitment to the Council's mission of education and outreach.
- Excellent organizational skills, initiative, and ability to work independently to effectively assist in managing the Council's operations including outreach, projects, accounting, membership and recordkeeping functions.
- Self-motivated, experienced in managing multiple tasks, and responsive to issues and concerns as they arise.
- Strong written and verbal skills to communicate effectively with colleagues, the Board, members, and other industry contacts, in a variety of formats and forums.
- Capacity to perform qualitative and quantitative policy analysis and research.
- Ability to work effectively in a small or home office work environment.
- Excellent computer skills, including Word and Excel skills.
- Ability to travel within California to attend policy hearings, conferences, training and other events as required.

Start Date and Compensation

The expected start date for this position is May 2010 or as soon as possible. The position is expected to be located in the San Francisco Bay Area, though other locations in California may be considered for the right candidate. A home office or commercial office location is expected. The Associate will be compensated competitively at a level consistent with the person's experience and skills.

Applications:

Interested candidates should send a resume with a cover letter explaining their interest and

capabilities, as well as available start date, to careers@efficiencycouncil.org <<mailto:careers@efficiencycouncil.org>> . No phone calls please. Please reference where you saw this posting (i.e. the energyfolks list!).

2. Carbon-Management (3 positions): ESP Environment & Energy, Boulder, CO

Consultant, Carbon Management Practice: BS degree and 1 – 5 years of professional practice or MS degree and 0 – 4 years of professional practice. Preferred disciplines include chemical engineering or mechanical engineering, but any energy-focused technical degree of comparable rigor is acceptable.

Responsibilities include developing greenhouse gas emissions inventories for corporations, identifying prospective opportunities for achieving emissions reductions, quantifying emissions reductions achievable through implementing specific emissions mitigation projects, and designing carbon emissions management plans and strategies.

Senior Consultant, Carbon Management Practice: BS degree and 6 - 8 years of professional practice or MS degree and 5 - 7 years of professional practice. Preferred disciplines include chemical engineering or mechanical engineering, but any energy-focused technical degree of comparable rigor is acceptable. Specific carbon management experience is required.

Responsibilities include developing greenhouse gas emissions inventories for corporations, identifying prospective opportunities for achieving emissions reductions, quantifying emissions reductions achievable through implementing specific emissions mitigation projects, and designing carbon emissions management plans and strategies. This position involves a limited project management role.

Project Director, Carbon Management Practice: BS degree and 9 or more years of professional practice or MS degree and 8 or more years of professional practice. Preferred disciplines include chemical engineering or mechanical engineering, but any energy-focused technical degree of comparable rigor is acceptable. At least 4 years of carbon management experience is required. Responsibilities include developing greenhouse gas emissions inventories for corporations, identifying prospective opportunities for achieving emissions reductions, quantifying emissions reductions achievable through implementing specific emissions mitigation projects, and designing carbon emissions management plans and strategies. This position is primarily a work production leadership role with a large project management role. In addition, the position involves supervisory responsibility for several junior staff.

3. Summer Intern positions at Sandia National labs

These positions are for research areas in energy systems and optimization. Students with backgrounds in mechanical engineering, chemical engineering, operations research, computer science, economics, and renewable energy systems are welcome to apply.

Some of our projects focus on modeling the environmental and economic impact of installing and operating stationary fuel cell systems at DOE laboratory facilities and DOD military bases. Others focus on the fuel (and other) savings from using fuel cells at the Army’s front line, at forward operating bases (FOBs). Still other projects focus on thermodynamic and chemical engineering models of polygenerative fuel cell systems (producing electricity, heat, cooling power, or hydrogen fuel).

Please apply at the Sandia student intern website: <http://www.sandia.gov/careers/stu-interns.html> <<http://www.sandia.gov/careers/stu-interns.html>> using these Job ID numbers (65606, 65604, 65602, 65601).

Job Opening ID (65606) SIP Technical-Undergrad Yr Rnd - Energy Systems Modeling & Optimization (Ops Research)

Job Opening ID (65604) SIP Technical - Grad Yr Rnd - Energy Systems Modeling & Optimization (Ops Research)

Job Opening ID (65602) SIP Technical-Undergrad Yr Rnd - Energy System Modeling & Optimization

Job Opening ID (65601) SIP Technical - Grad Yr Rnd - Energy System Modeling & Optimization

Thank you,

Dr. Whitney Colella , PhD, MBA

Email: wgcoleg@sandia.gov <<mailto:wgcoleg@sandia.gov>> ; Voice Mail (only): (505) 844-8534; (925) 294-2612;

4. Energy Efficiency Engineers: CLEARResult Consulting, Texas & OK

CLEARResult Consulting (www.clearesult.com <<http://www.clearesult.com/>>)

is seeking Energy Efficiency

Engineers to support commercial, institutional, and industrial energy efficiency programs in commercial and residential markets on behalf of our utility clients. Openings currently exist in Austin, Dallas, Houston, and Tulsa. CLEARResult has expertise in utility program design, development, implementation, and evaluation. We support utility clients by developing energy efficiency programs, peak reduction programs, and other efficiency programs that target the residential, commercial, industrial, and institutional sectors and leverage our experience in energy efficiency, demand side management (DSM), emissions and greenhouse gas reductions, environmental conservation, renewable energy, and energy resource acquisition.

Essential Duties and Responsibilities:

- . Review design drawings to determine building energy use
- . Provide design recommendations
- . Calculate energy savings
- . Design program templates and calculators to assess energy use and potential energy savings
- . Provide technical knowledge base to explain complex energy issues to internal as well as external parties
- . Perform special projects and research new emerging technologies related to energy efficiency
- . May require travel up to 30%

Education/Experience:

- . Bachelor's degree in engineering
- . Minimum 5 years of related experience in consulting engineering, energy services, and/or utility energy-efficiency programs
- . Extensive knowledge of energy-efficiency technologies, programs, and policies
- . Expertise in energy use analysis and energy auditing
- . CEM preferred

If interested, please contact James Hatheway at (512) 259-2383 or jameshatheway@jhrecruiting.com

5. Policy Fellowships with Americans for Energy Leadership, DC

info@leadenergy.org

Americans for Energy Leadership, a new project of Scientists & Engineers for America, is now accepting applications for the position of Policy Fellow, seeking the nation's brightest young adults to perform high-level research, development, reporting, and advocacy on energy and innovation policy. Full-time and part-time positions are available in Washington, DC and across the country. The position is paid and designed especially for college students, graduate students, recent graduates, and young professionals, including a full-time summer track and a non-resident, part-time track. Applications will be considered on a rolling basis until May 2nd for the summer track, and May 23rd for the non-resident track. See <http://www.leadenergy.org/our-team/positions> <<http://www.leadenergy.org/our-team/positions>> for more information (also posted below), and for upcoming information on open positions.

Policy Fellows will play a central role in supporting AEL's mission, with unique opportunities for research, publishing, advocacy, education, and networking. For example, fellows will have opportunities to publish in outlets like the Huffington Post, Forbes Energy Source, Grist, The Energy Collective, and more. Policy Fellows will also have opportunities to access AEL's growing network of experts in energy and innovation policy, collaborate on projects with larger think tanks and organizations, and meet with different policymakers.

Potential areas of focus include (but are not limited to) issues related to energy research and development, advanced energy education and job creation, intellectual property and energy technology transfer, global energy poverty alleviation, high-tech manufacturing, energy technology road-mapping, and more.

The full-time position is a 10-week summer fellowship in Washington, DC, from June to August, 2010 (exact dates negotiable), offering a stipend of \$250 per week. The part-time, non-resident option is a 5-month fellowship, offering a total stipend of \$500. All fellows will receive a travel scholarship to attend a special summit in Washington, DC and will have access to various career development opportunities.

* Full-time summer program (June-Aug): May 2nd, 11:59pm

* 5-month non-resident program (June-Nov): May 23rd, 11:59pm

To apply, please submit a resume, cover letter, and three writing samples to info@leadenergy.org

<mailto:info@leadenergy.org> with subject line "Application for Policy Fellow." Writing samples should include one research paper and one op-ed style piece (these do not have to be published). In your cover letter, please indicate (1) why you are applying, and whether you are applying for the summer or non-resident position, or both; (2) your experience and/or education related to policy, in energy or other areas; (3) any individual experiences or traits that make you diverse; and (4) any other summer job acceptance deadlines you must meet, if applying for the summer position. Personal recommendations are welcomed (two max), but not required.

6. Lead Analyst, Technical Specialist: Ecos, Durango, CO

Ecos is seeking to fill two positions in the Durango, Colorado office working on cutting-edge research and policy topics at the intersection of energy and environmental issues. You will be able to develop close relationships with colleagues while shaping today's energy policy and your own future. As a member of the Research and Policy Team, you will experience all the benefits of working for a small company, while also having a decisive impact on government policies and corporate actors in the energy-efficiency field.

In the Lead Analyst position, you will be responsible for developing expertise on a unique set of topics within the consumer electronics and office equipment category. You will collaborate with the Research and Policy team in its work on consumer electronics efficiency, and be a part of a team of colleagues that focus on other important energy topics, such as lighting and transportation efficiency.

In the Technical Specialist position, you will be responsible for developing expertise on a unique set of technical topics related to consumer electronics efficiency and "smart" homes technology. You will collaborate with the Research and Policy team in its work on these topics, including informing technically driven policy recommendations to clients.

www.ecosconsulting.com <http://www.ecosconsulting.com/> .

7. Solar Water Heating System Sales, Also Summer Intern, FAFCO, Chico, CA

FAFCO is the oldest and largest solar thermal manufacturer in the U.S. www.fafco.com <http://www.fafco.com>

Position Description: Solar Commercial Water Heating System Sales

Candidate Will at Minimum Have:

- 3-5 years experience selling high-ticket commercial systems
- Strong quantitative skills and ability to absorb technical complexity quickly
- Demonstrated history of high-energy consultative sales success

Bachelor's degree
Hydronic or energy system sales experience a plus

Willing to travel up to 60% of the time, primarily in CA (including day trips)
Benefits, commissions,

ALSO: Summer Intern position available.
Contact Freeman Ford , www.fafco.com <<http://www.fafco.com>>

8. Regulatory Analyst, CA Public Utilities Commission, SF
JOB OPPORTUNITY BULLETIN NUMBER: J461110024

PURA I: \$2939 - \$4652* (per month)
PURA II: \$4611 - \$5602 (per month)
PURA III: \$5064 - \$6156 (per month)

*PURA I candidates qualify for a "hire-above minimum" (HAM) with a starting salary of Range A \$3572; Range B \$3870; Range C \$4652 for recruitment and retention purposes.

The California Public Utilities Commission (CPUC) is the State's lead agency working to increase the amount of energy efficiency in California, and to reduce power plant emissions which lead to climate change. The CPUC oversees high-profile utility energy efficiency programs totaling some \$1 billion/year in spending that represent an important avenue to increasing energy efficiency in the state. Energy efficiency is first in the State Energy Action Plan Loading Order and as such represents a least-cost energy resource and GHG reduction-option for the state.

The Energy Efficiency Evaluation Section in Energy Division's Energy Efficiency and Demand Response Branch primarily supports the Commission's oversight of the utilities' energy efficiency programs and portfolios by providing independent evaluation, measurement, and verification (EM&V) of energy/peak load impacts and achievements of these programs/portfolios compared to Commission-established goals and performance metrics. The section is responsible for generating data and maintaining databases used to estimate energy savings from various energy efficiency measures and for calculating cost effectiveness of energy efficiency programs and portfolios, conducting pertinent research and market assessments to support the Commission's policy and program/portfolio development on energy efficiency in conjunction with the Energy Efficiency Planning Section, and coordinating with the CPUC Audit Branch in undertaking financial and management audits of the utilities and other program implementers. The section also provides technical support to the Commission's risk/reward incentive mechanism (RRIM) for the utilities as administrators of energy efficiency programs. The section's EM&V reports serve as basis for the utilities' incentive claims under the current RRIM.

Under the general direction of a Program and Project Supervisor or designated project manager, the individual filling this position exercises independent judgment, conduct economic, policy and/or technical analyses and research, and prepare written and oral reports and briefings for Commissioners, administrative law judges, and management on a wide range of regulatory issues pertaining to energy efficiency and related Commission proceedings. The incumbent will act as the lead person or technical expert with responsibility for overseeing specific energy efficiency program evaluation projects and/or other EM&V studies, participate as part of a team with other staff, and work with other stakeholders and state agencies as needed. In addition, the incumbent will write and issue Requests for Proposals on various EM&V projects, review and comment on pending legislation, respond to inquiries from the public and other governmental agencies. This position reports to the

Section supervisor and may require limited travel.

http://www.cpuc.ca.gov/PUC/jobs/jobopps/PURA+_I_II_III_Energy_LimTerm_100330.htm

9. Sustainability Education Internship, Durango, Colorado

The Environmental Center (EC) at Fort Lewis College is accepting applications for an intern. The EC intern is a multifaceted position designed to provide professional training in all aspects of environmental non-profit work with a specific focus on engaging the campus community on sustainability issues. The EC intern will gain experience with outreach and public involvement, media and communications, organizing events and educational programs, managing campus and community projects, fundraising, and administration. The Environmental Center Intern is a full-time position lasting from August 16, 2010 to May 6, 2011. The intern will work under the supervision the Environmental Center coordinator in the Fort Lewis College Department of Student Affairs.

The College and Community: Fort Lewis College is Colorado's public liberal arts college. Almost 3,700 students pursue Bachelor of Arts and Bachelor of Science degrees in 26 degree programs. The College is proud of its work on sustainability issues and enjoys its location in the culturally and ecologically diverse Four Corners region. Fort Lewis College offers over 70 environmental courses, including a new Environmental Studies degree program. The geographical location of Fort Lewis College provides unequalled outdoor recreational opportunities for students, staff, and faculty. Durango is located on the edge of the San Juan Mountains and the Colorado Plateau and has a population of 15,000 people.

The Program: The EC is a student-funded program that has been on the campus since 1991. The Center works to strengthen students' commitment to a socially and ecologically-responsible world by connecting them with opportunities to create change on campus and in the community. Through the Center, students work on one of six staff teams: local food, zero-waste, climate action, sustainable business, outreach, and communications. Leadership training and student empowerment is a specific goal of the Center as is connecting environmental and social justice issues. Students at the Center are involved with community gardens, youth programs, environmental journalism, energy audits, composting and recycling, and buy local campaigns.

Qualifications: Candidates should be in final stages of an undergraduate degree program or already possess their bachelor's degree. Candidates should have some knowledge of environmental concerns on college campuses. Previous experience with a college/university environmental program or club, environmental studies department, or campus recycling program is desired.

Required

- Demonstrated ability to form a positive and supportive relationships with diverse groups of students
- Ability to take initiative and work independently to solve problems
- Experience with planning and implementing events and educational programs, including public speaking
- Experience mentoring and supporting students, through peer counseling, coaching, or similar experiences
- Ability to work on multiple assignments, meet deadlines, and keep track of details
- A positive attitude, sense of humor, and strong commitment to environmental and social justice issues

Additional Skills/Qualifications

- Work experience with a college/university sustainability program and/or residential housing

program

- Experience organizing, managing and motivating volunteers
- Experience developing creative programs and activities to engage the general public
- Competency with MS Word, Excel, Outlook, Publisher, Adobe Photoshop, and Web editing programs

Compensation: The Environmental Center intern will receive housing on campus and a stipend of \$5,700. The intern is also eligible for an Americorps education award of \$2,362.50 upon completion of the internship. The position requires a flexible work schedule, including some nights and weekends.

To Apply: Send a cover letter which addresses the qualifications of the position, résumé, and contact information for three references (current letters of recommendations are acceptable). Also required is a one-page statement about your approach to building community among students interested in changing the world. Send all materials to: EC Intern Application, Fort Lewis College Environmental Center, 1000 Rim Drive, Durango, CO 81301, 970-247-7091. A complete application packet may also be emailed to envcenter@fortlewis.edu <<mailto:envcenter@fortlewis.edu>> .

Complete applications must arrive by June 1, 2010 to receive initial consideration, but feel free to contact us after the deadline to find out if we have filled the position. FLC is an AA/EEO employer. Women and people of color are encouraged to apply.

10. Cody's New Twitter Job List: Dozens of jobs

<http://twitter.com/EnergyEnvirJobs>

11. United Technologies Research Center: Sr. Staff Scientist Energy Systems, E. Hartford, CT

United Technologies Research Center (UTRC), the central research organization of United Technologies Corporation (UTC) has an exciting employment opportunity for engineers & scientists with expertise in analysis, design, and integration of energy efficiency solutions for the built environment.

United Technologies Research Center (UTRC) is an internationally recognized corporate research organization of United Technologies Corporation (UTC), a Fortune top 50 company, that conducts research and development across a range of technology areas to drive its mission of "growth through innovation." UTRC partners with UTC business units and renowned external research organizations to impact organic growth of the Corporation through new product and process innovations. The operating units of UTC include: Carrier (HVAC products), UTC Power (including UTC Fuel Cells and Combined Heat & Power products), Otis (elevators and escalators), UTC Fire & Security (products & services), Pratt & Whitney (aircraft engines), Sikorsky (helicopters), and Hamilton Sundstrand (aerospace products). Our headquarters are in East Hartford, USA with partnerships worldwide and an office in Shanghai, China.

The following position is currently open at East Hartford, CT.
83848-02 Senior/Staff Scientist- Energy Systems for the Built Environment

For detailed information about the position and to apply on-line, please visit our jobs web site at:
http://www.utrc.utc.com/pages/Career/Job_openings.html <http://www.utrc.utc.com/pages/Career/Job_openings.html>

12. Green Building Energy Modeling Professionals: The Cadmus Group, VA or UT

The Cadmus Group, Inc. is seeking mid-level professionals for our Green Building (GB) practice with experience in energy modeling and ASHRAE 90.1. Mid-level professionals should have three or more years of experience. Daily activities include consulting on LEED and energy modeling projects, reviewing LEED certification applications (primarily EA credit 1), supporting federal, state and municipal energy programs, reviewing standards and codes, creating and manipulating spreadsheets and databases, working with standard software packages to benchmark building energy use, offering technical support to organizations, training and writing reports and other documents. This position involves extensive work with the ENERGY STAR platform for residential and commercial buildings, and working with LEED Accredited Professionals (APs) to review designs and operational practices in new and existing buildings for maximum sustainability.

The ideal candidate will be a detail-oriented problem solver who is able to handle multiple tasks in a fast-paced consulting environment. This position is located in our Arlington, VA or Salt Lake City, UT office and will require some travel (5-15%).

Minimum requirements:

- B.S. Mechanical Engineering, or related field with at least 5-7 years of extensive energy modeling and ASHRAE 90.1 experience in lieu of B.S. in Mechanical Engineering.
- Energy modeling and ASHRAE 90.1 experience (Design + Construction EAc1 submittal or review experience a plus)
- Hands-on experience with common energy modeling software (eQuest, Trace 700, HAP, EnergyPlus, EnergyPro, etc.)
- LEED Accredited Professional (AP) with at least 3 years of LEED-related experience
- Academic or field experience with building audits (ASHRAE and green building)
- Commitment to green building and sustainability
- Excellent written and verbal communication skills in English
- Proven analytical skills
- Ability to work well independently and in teams

Optional but desirable attributes:

- At least 1 year of experience reviewing applications for LEED certification with USGBC, GBCI, or a Certification Body
- Spanish language ability
- Field experience in existing home remodeling or renovations
- Familiarity with California Title 24

<https://careers.cadmusgroup.com/apply/>.

13. Three Senior-level Economists/Researchers: Climate Protection Initiative, CA

The Climate Policy Initiative (CPI) is currently seeking three senior-level economists and/or expert researchers to serve in an analytical role for the organization’s San Francisco office. We thought these positions might be of interest to you or the people in your professional network. The position description is attached - please feel free to share it with colleagues and friends. To apply directly, please follow the directions on the position description.

The Organization: CPI provides best-in-class analysis to help policymakers around the world analyze their options related to climate policy. As a leading, independent center for comparative policy analysis, CPI will assess the practices of countries as they implement a rapidly growing portfolio of regulatory and financial measures aimed at building low carbon economies. CPI is fully funded and has begun operations in San Francisco, Beijing, Berlin and Venice. Please see

www.climatepolicyinitiative.org <<http://www.climatepolicyinitiative.org>> and the attached position descriptions for more information.

The Positions: CPI is currently seeking individuals with exceptional quantitative skills to serve as the research and analytical backbone of the organization. The new hires will help to analyze regulations intended to develop low-carbon growth plans for countries worldwide. Each individual should be an expert in his or her field, with the analytical capacity to ensure a rigorous research methodology. The three positions are:

1. Behavioral Economist - This position will analyze policies intended to accelerate the transition to an energy-efficient and low-carbon economy; the successful candidate will bring knowledge of mechanisms that spur social and behavioral change. Please see attached or click here for the complete position description: http://www.ceaconsulting.com/what/position_details.aspx?client=CEA&jobId=81 <http://www.ceaconsulting.com/what/position_details.aspx?client=CEA&jobId=81>

2. Economist - This position will conduct analyses of economic policies and market drivers that maximize energy efficiency, the use of renewable energy, and low-carbon growth. Please see attached or click here for the complete position description: http://www.ceaconsulting.com/what/position_details.aspx?client=CEA&jobId=82 <http://www.ceaconsulting.com/what/position_details.aspx?client=CEA&jobId=82>

3. Innovation Expert - Technologist - This position will conduct quantitative research of policies that increase technological innovation, the economic viability of new products and the mainstreaming of clean technology. Please see attached or click here for the complete position description: http://www.ceaconsulting.com/what/position_details.aspx?client=CEA&jobId=83 <http://www.ceaconsulting.com/what/position_details.aspx?client=CEA&jobId=83>

Please review the attached descriptions for more detail on each position.

California Environmental Associates is assisting CPI with their search. If you have additional questions regarding this position, please feel free to contact me: laura@ceaconsulting.com <<mailto:laura@ceaconsulting.com>> .

14. Environmental Designer: Atelier Ten, SF

Atelier Ten's San Francisco office is seeking an experienced environmental designer to join its staff. This person will work on a range of building types from residences to institutional work to large commercial buildings. He or she will complete technical analysis and qualitative sustainable design reviews for a wide range of environmental issues (listed below). In addition, he or she will function as a project manager, setting the direction for assigned projects to ensure high-quality analysis and deliverables. Qualified applicants will have:

- At least 2 years of experience as a sustainability consultant, including familiarity with the environmental issues and analysis for climate, massing, shading optimization, high performance building envelopes, daylight analysis, conditioning & energy systems, renewable energy, water systems, sustainable landscape design, building materials, lighting systems, alternative transportation, carbon footprinting, and sustainable design for master plans.
- At least 1 year of project management experience, including: framing and execution of analysis; execution of project deliverables; experience with client meetings; and

directing technical staff working under the project manager. Candidates must be familiar with typical building design processes, phasing, deliverables, and consultant roles.

- Excellent analytical skills, including quantitative analysis, and the ability to solve problems creatively.
- Excellent written communication skills including clear, informative technical reports; email; and presentation material.
- Excellent intrapersonal skills including presentations and technical conversations with architects, engineers, and building owners. Candidates must work well collaboratively.
- Significant experience with the LEED certification process including credit calculations and documentation.
- Basic graphic skills including sketching, formatting deliverables, and familiarity with computer graphics programs (listed below).
- Proficiency in the following software: Ecotect & WeatherTool, Radiance, Excel, PowerPoint, AutoCAD, Illustrator, Photoshop.
- Familiarity with the following software: DaySim, eQuest, EnergyPlus, CorelDraw, InDesign.

Candidates must submit a cover letter and a CV to sanfrancisco@atelierten.com <<mailto:sanfrancisco@atelierten.com>> . The position starts in June or July 2010. Please visit www.atelierten.com <<http://www.atelierten.com/>> for more information about our firm.

15. Energy Modelers and Sustainability/LEED Consultants: Cobalt Engr, Canada

Cobalt is currently looking to expand its Sustainability Team by adding experienced Sustainability/LEED Consultants and Energy Modelers to our teams in Toronto and Vancouver. You'll play an integral role within the Mechanical Engineering Design Team and be responsible for the research and/or energy simulations needed to provide input for the selection and Design of sustainable Mechanical Systems for Buildings, in line with company and industry standards under the supervision of a Senior Designer or Project Manager.

You will be a team player with the ability to receive and execute instructions to contribute to the timely completion of Projects and Systems Designs with minimal supervision. Both positions require strong communication skills as interaction between Cobalt's design team as well as clients and suppliers is key.

The Sustainable Consultants will be proficient in current LEED standards and will offer education and viable design solutions to our design team and clients. In addition you'll take lead on coordinating all aspects to obtain LEED certification for projects as specified.

The Energy Modeler will determine a building's efficiency under various design conditions. You will be able to simulate, interpret, analyse and report on building and environmental conditions to enable Sustainable Building Design. You should have a strong working knowledge of IESve modelling software or equivalent.

Requirements:

You are a self-motivated with a background in building engineering, having experience in mechanical building systems an asset! You have a passion for using your engineering background in a sustainable consulting capacity as opposed to specifically doing the design work.

Candidate Profile

- Experience in building engineering, design experience in HVAC, Plumbing, and Fire Protection systems an asset!
- Minimum 1 year as a sustainable building or LEED consultant

OR

- Energy Modelling experience (IESve or equivalent)
- Ability to think mechanically and/or mechanically inclined
- Ability to read Architectural, Structural, Electrical drawings with minimal supervision provided by senior staff
- Ability to apply prescriptive requirements of plumbing building and sprinkler codes (i.e. NFPA, BCBC, BC Plumbing Code, etc) with minimal supervision provided by senior staff
- Ability to multi-task
- Strong listening skills to receive and executive instructions from Design staff
- Critical thinking and problem solving
- Initiative and inclination to learn
- EIT classification, ASCT accreditation, or ability to apply for PEng qualification is an asset
- University degree or College diploma in Mechanical Engineering or related specialization is required
- Further certification in Energy Modelling, Buildings Systems Performance, Energy Assessment or Sustainable Engineering is beneficial

Please send a resume and contact information to:
 Charlyne Landgraaf, HR Advisor
 resumes@cobaltengineering.com

16. Sr. Building Performance Analyst, Lord, Aeck & Sargent Architecture, Atlanta

Our Atlanta office is looking for a Senior Building Performance Analyst to join our Sustainability Team. In keeping with our commitment to the 2030 Challenge, we are looking to expand our in-house energy simulation capabilities. This position will work with all studios and offices, with a primary focus on Science and Education studio projects.

Minimum Requirements:

- Must have five to ten years experience with energy modeling and building analysis
- Proficiency in eQUEST required. Proficiency in Energyplus, Trace, HAP, Ecotect or IES is a plus
- Familiarity with CAD programs like Autodesk Revit and Google Sketchup is a plus
- Degree in Mechanical Engineering or Building Science required
- Strong understanding of MEP systems a must
- Self motivated individual able to work well in a highly collaborative studio environment
- LEED Accreditation required; LEED EAc1 documentation experience is a plus
- Knowledge of building physics and sustainable design, as well as an ability to read and understand project specifications and drawings are critical
- Good computer skills and basic knowledge of Microsoft Office (i.e., Outlook, Word, Excel) required. Advanced Excel Skills a plus

Personality Traits:

- Detail-oriented, methodical, meticulous, process-oriented; however, open to change and motivated by innovation
- Great collaborator and communicator – excellent verbal and written skills are important
- Accustomed to working in cross-studio teams
- Ambitious self-starter with get-it-done attitude who strives for results and performs well under pressure
- Good sense of humor

The ideal candidate must be self motivated and willing to learn. The successful candidate's chief responsibilities will include building energy models, working with project teams to identify and assess energy efficiency opportunities, support firm research initiatives on best building practices and assessment of the performance of existing and recently-completed projects, and preparing reports of findings. The candidate will be expected to work closely with MEP consultants, and serve as a bridge between the design team and the MEP team, providing guidance on conceptual mechanical systems selection. They will report directly to the firm's Director of Sustainability and work closely with other sustainable design experts and project teams across the firm. A successful candidate will need to be a good communicator, with good presentation skills. Past research building experience is strongly desired. Please submit your resume online at this address; <https://home.eease.adp.com/recruit/?id=498094>

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energyfolks mailing list
energyfolks@lists.stanford.edu
<https://mailman.stanford.edu/mailman/listinfo/energyfolks>