

Energyfolks: Wind, Commissioning, PV shading, jobs

Thursday, July 30, 2009 5:45 PM

From: "Gil Masters" <gmasters@stanford.edu>

To: energyfolks@lists.stanford.edu

Howdy Energyfolks,

Amazing.... 103°F in Seattle yesterday! Highest temp ever recorded...

RANDOM STUFF:

1. 2008 Wind Technologies Market Report
2. New LBNL Report on Building Commissioning
3. Pew Report: Wind and Solar Electricity: Challenges and Opportunities
4. Interesting New PV Product to reduce shading losses: SolarMagic Power Optimizer
5. Exxon to Invest Millions to Make Fuel From Algae
6. Rice Husk Ash replacement for Portland Cement
7. China to start building first 10 million-kW wind power station in mid-July

JOBS:

1. Senior Marketing Manager, Analyst positions at 3Degrees, SF
2. Energy and Climate Concept Development and Validation Engineer, German Company, in NYC
3. Exxon, N.J. Energy Resource and Environmental Modeling
4. Energy Systems Engineer: Grid Integration of Utility-Scale PV
5. Energy Performance Analysts: HDR S.F., Omaha, Alexandria
6. Clean Energy Fellow positions at Massachusetts Dept Energy Resources
7. City of Alameda Municipal Power: Assistant General Manager
- *8. Senior Analyst to work in Sacramento for NREL
9. Online Marketing Internship: Wattbot
10. Loads of Open Renewables Jobs at NREL:

FACULTY POSITIONS IN RENEWABLE ENERGY

1. King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
2. University of Denver, E.E. and C.S.
3. Purdue University, Mechanical Engineering Department
4. George Washington University, Mechanical and Aerospace Engr Department, D.C.
5. Energy and Environment Lecturers Needed for San Jose State, Fall Quarter

1. DOE 2008 Wind Technologies Market Report

The U.S. Department of Energy has just released its “2008 Wind Technologies Market Report.” This report, authored primarily by Ryan Wiser and Mark Bolinger of Lawrence Berkeley National Laboratory, provides a comprehensive overview of trends in the U.S. wind power market, with a particular focus on 2008.

The need for such a report has become apparent in the past few years as the wind power industry has entered an era in which it contributes significantly to the nation’s new electricity supply needs. Drawing from a variety of sources, this report provides the latest information on a variety of topics, including:

- Wind project installation trends
- Wind industry developments
- Evolution of wind power sales prices
- Comparing the price of wind and fossil generation
- Installed wind project costs
- Wind turbine prices
- Wind project performance
- O&M cost trends
- Integration, transmission, and policy developments
- Future outlook

Of particular note, data on project-level wind power pricing, installed project costs, O&M expenses, and wind project performance have not previously been summarized in as comprehensive a fashion as provided in this annual report.

The report can be downloaded at:
<http://eetd.lbl.gov/ea/ems/re-pubs.html>

A PowerPoint presentation based on the report can be found at:
<http://eetd.lbl.gov/ea/ems/emp-ppt.html>

If you have any questions, feel free to contact Ryan Wiser or Mark Bolinger at Lawrence Berkeley National Laboratory (Ryan: 510-486-5474, RHWiser@lbl.gov ; Mark: 603-795-4937, MABolinger@lbl.gov).

Best regards, and we apologize in advance for any cross-postings.

2. New LBNL Report on Building Commissioning

We are pleased to announce the release of “Building Commissioning: A Golden Opportunity for Reducing Energy Costs and Greenhouse Gas Emissions.” This report

provides the world's largest database of commissioning case studies for new and existing buildings. It represents a major update and expansion of a study initially published in 2004, with roughly three-times as many projects. We gathered and analyzed data on 643 buildings, representing 99 million square feet of floor space from 26 states. The database incorporates the work of 37 commissioning providers.

Commissioning maximizes the quality and persistence of energy, cost, and emissions reductions. The process ensures that building owners get what they pay for when constructing or retrofitting buildings, provides risk-management and "insurance" for policymakers and program managers enabling their initiatives to actually meet targets, and detects and corrects problems that would eventually surface as far more costly maintenance or safety issues.

This report responds to a widely held concern that end-users do not have confidence in the nature and level of energy savings that can be achieved through the commissioning process. It addresses this issue by assembling diverse case studies and previously unpublished data, and developing performance benchmarks using standardized assumptions. The results demonstrate that commissioning is arguably the single-most cost-effective strategy for reducing energy, costs, and greenhouse-gas emissions in buildings today.

Key findings:

- * Median commissioning costs: \$0.30 and \$1.16 per square foot for existing buildings and new construction, respectively (and 0.4% of total construction costs for new buildings)
- * Median whole-building energy savings: 16% and 13%
- * Median payback times: 1.1 and 4.2 years
- * Median benefit-cost ratios: 4.5 and 1.1
- * Cash-on-cash returns: 91% and 23%
- * Very considerable reductions in greenhouse-gas emissions were achieved, at a negative cost of -\$110 and -\$25/tonne CO₂-equivalent.
- * High-tech buildings are particularly cost-effective, and saved large amounts of energy and emissions due to their energy-intensiveness.
- * Projects employing a comprehensive approach to commissioning attained nearly twice the overall median level of savings, and five-times the savings of projects with a constrained approach.
- * Non-energy benefits are extensive and often offset part or all of the commissioning cost.
- * Limited multi-year post-commissioning data indicate that savings often persistent for a period of at least five years.
- * Uniformly applying our median whole-building energy-savings value to the stock of U.S. non-residential buildings yields an energy-savings potential of \$30 billion by the year 2030, and annual greenhouse gas emissions reductions of about 340

megatons of CO2 each year. An industry equipped to deliver these benefits would have a sales volume of \$4 billion per year and support approximately 24,000 jobs.

“Commissioning America” in a decade is an ambitious goal, but achievable and consistent with this country’s aspirations to simultaneously address energy and environmental issues while creating jobs and stimulating sustainable economic activity.

The report and summary presentation can be downloaded at:

<http://cx.lbl.gov/2009-assessment.html>

Best regards, and apologies for any cross-postings.

Evan Mills, Ph.D.

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<http://eetd.lbl.gov/emills>

3. Pew Report: Wind and Solar Electricity: Challenges and Opportunities

Wind and Solar Electricity: Challenges and Opportunities," has just been released by the Pew Center on Global Climate Change. This report focuses on the three principal challenges to greater use of wind and solar electricity: costs, transmission, and variability. The report explains these challenges, explores policy options for addressing them, and assesses scenarios of significantly higher levels of renewable electricity generation.

You can also download the report at:

<http://www.pewclimate.org/report/Wind-Solar-Electricity/June2009>

4. Interesting New PV Product to reduce shading losses: SolarMagic Power Optimizer

Photovoltaic arrays consist of strings of series-connected PV panels, which are then paralleled together and converted to AC power through an inverter. The key challenge of these arrays is how a small amount of real-world mismatch with just a few of the PV panels can cut the power output of the entire array in half. This mismatch can come in the form of shading (e.g. trees, chimneys, overhead power lines, bird droppings, handrails, etc.), panel-to-panel mismatch, different panel orientations and tilts, or different string lengths.



Photovoltaics
Category

To maximize the energy output of each solar PV panel in the array, National Semiconductor has developed SolarMagic technology, which enables each solar panel to produce the maximum energy regardless of whether other panels in the array are under-performing due to mismatch. SolarMagic technology monitors and maximizes the energy harvest of each individual PV panel through advanced algorithms combined with leading-edge mixed-signal technology, thereby recouping up to 57% of the lost energy due to mismatches.

The SolarMagic power optimizer is designed to be installed quickly and easily within the traditional architecture of a solar array. Each power optimizer comes with a universal mounting bracket for easy attachment to a racking system. The output wires of each solar panel are simply series-connected to a power optimizer (positive wire to positive wire, negative to negative), with the power optimizer output wires correspondingly connecting into the next solar panel's power optimizer. (National Semiconductor, 2009, <http://www.solarmagic.com>)

5. Exxon to Invest Millions to Make Fuel From Algae

By JAD MOUAWAD

Published: July 13, 2009

The oil giant Exxon Mobil, whose chief executive once mocked alternative energy by referring to ethanol as "moonshine," is about to venture into biofuels. On Tuesday, Exxon plans to announce an investment of \$600 million in producing liquid transportation fuels from algae — organisms in water that range from pond scum to seaweed. The biofuel effort involves a partnership with Synthetic Genomics, a biotechnology company founded by the genomics pioneer J. Craig Venter.

* According to Exxon, algae could yield more than 2,000 gallons of fuel per acre of production each year, compared with 650 gallons for palm trees and 450 gallons for sugar canes. Corn yields just 250 gallons per acre a year.

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6. Rice Husk Ash replacement for Portland Cement

“Rice Concrete” Developed to Cut Carbon Emissions From Cement. A team of researchers led by Rajan Vempati of ChK Group has figured out a way to make nearly carbon-free rice husk ash that can substitute for high carbon intensity Portland Cement. The team heated rice husks to 800 degrees C in an oxygen-free furnace, driving off carbon and leaving fine particles of nearly pure silica behind. The process emits some CO2 but is considered carbon neutral as new rice paddies absorb it back as they grow. In addition, adding the ash makes concrete stronger and more resistant to corrosion. The researchers believe that the rice husk ash could replace up to 20% of the cement typically mixed into concrete in the construction of skyscrapers, bridges and any structure built on or near water. (MSNBC, July 7, 2009, http://www.msnbc.msn.com/id/31782597/ns/technology_and_science-science/)

(from Sustainable Spaces, 2009)

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7. China to start building first 10 million-kW wind power station in mid-July

LANZHOU, Jul 05, 2009 – Xinhua

The would-be largest wind power station is designed to have an installed capacity of 5.16 million kw by the end of 2010, 12.71 million kw by the end of 2015 and 20 million kw by the end of 2020, said Wu Shengxue, deputy head of the Jiuquan Municipal Development and Reform Commission. "The installed capacity will eventually reach 40 million kw," he said. "Total costs on the project are predicted to exceed 120 billion yuan (17.6 billion U.S. dollars)."

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JOBS JOBS JOBS

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1. Senior Marketing Manager, Analyst positions at 3Degrees, SF

We have an exciting new job opportunity at 3Degrees for a Senior Marketing Manager. The following information, as well as our other job openings, are available on our Careers page: <http://www.3degreesinc.com/about/careers/>

3Degrees is a national leader in originating and commercializing renewable energy certificates (RECs) and verified emissions reductions (VERs) and provides consulting services related to its markets. Our mission is simple. 3Degrees helps reduce the magnitude of climate change by becoming the leading, trusted provider of customized,

global climate change solutions to U.S. businesses, utilities and institutions. 3Degrees also assists projects that produce environmental commodities in the financing, verification, registration, and commercialization of RECs and VERs.

3Degrees services include:

- Renewable Energy Certificates (voluntary and compliance)
- Verified Emissions Reductions
- Utility Partnership Services
- Climate and Energy Consulting Services Project Finance Investment Services

Named the 2005, 2007, and 2008 U.S. Department of Energy Renewable Energy Marketer of the Year serving businesses and the #1 Voluntary GHG Trading Company by Environmental Finance Magazine, 3Degrees and its employees are committed to delivering market expertise and the highest quality and integrity products and services.

JOB DESCRIPTION

The purpose of this position is to grow sales and meet organizational objectives through implementation of successful marketing strategies. This position will be based in San Francisco and reports to the EVP of Marketing and Business Development and will work closely with the company's three business divisions: Origination & Trading, Utility Partnerships, and Climate & Energy Services to build the company's brand, showcase its capabilities, and help to develop new business opportunities.

2008 U.S. DOE Large Commercial Green Power Supplier of the Year

The Presidio of San Francisco
6 Funston Avenue
San Francisco, CA 94129
415.561.6852
lmaldonado@3degreesinc.com
www.3degreesinc.com

Bringing Climate Solutions Down to Earth

2. Energy and Climate Concept Development and Validation Engineer, German Company, in NYC

Transsolar is a German-based climate engineering firm, and one of the premier such offices in the world. We are seeking talented, highly motivated engineers for our New York office.

Transsolar develops and validate concepts for high quality environments that require minimal energy use. To achieve this we work collaboratively within the design team

from the start of the design process, considering each step from the standpoint of fundamental thermodynamics. This generates a climate concept in which form, material, and mechanical systems are synergistic components of a well-orchestrated climate control system; and conversely, an environmental control strategy that is integral to the architectural concept.

We use a wide variety of computer simulation tools to evaluate our concepts. We perform dynamic thermal simulation using TRNSYS to develop and validate appropriate, reliable concepts in relationship to the complex set of factors that is unique to each project. Similarly, we perform daylight simulations using RADIANCE and computational fluid dynamics (CFD) using FLUENT.

Transsolar engineers are often specialized in their work, but all carry out a broad range of tasks. Responsibilities may include but are not limited to:

- Design and validation of ongoing projects via TRNSYS, RADIANCE, or FLUENT simulation
- Collaboration with German Transsolar offices
- Project coordination
- Participation in meetings and design charrettes
- Graphical representation of climate and energy concepts
- Writing reports and correspondence
- Domestic and international travel to project meetings and sites

Engineers with an emphasis on dynamic thermal simulation are our highest priority, but experts in daylight or CFD are also of interest.

Both entry-level positions and positions for 3-5 years experience are available. Our New York office is small but growing, providing ample opportunity for advancement.

Preferred qualifications include:

- Proven ability to creatively develop and apply non-traditional climate solutions to the indoor environment
- Education related to building energy flows and building science: heat transfer, thermodynamics, fluid mechanics, solar geometry and daylighting, etc. Ideal is a degree in mechanical engineering. An M.S. is preferred but not required.
- Education/professional experience with architectural and mechanical systems for building climate control
- Experience with dynamic thermal simulation
- Experience with daylight simulation
- Experience with computational fluid dynamics in built environment applications
- Excellent oral and written communication skills
- Familiarity with basics of computational analysis (text-based input, computer programming, spreadsheet analysis)
- Computer-based drawing skills (e.g. Corel Draw, Adobe Illustrator, etc)
- Interested applicants may submit their resume and work samples via email to nycjobs@transsolar.com

3. Exxon, N.J. Energy Resource and Environmental Modeling

ExxonMobil Research and Engineering has an immediate opening for a Member of the Technical Staff in its Corporate Strategic Research laboratory located in Clinton, NJ.

Candidates are sought to fill a key position in the Corporate Strategic Research Laboratory of ExxonMobil Research and Engineering in the area of Energy Resource and Environmental Modeling. A strong background in systems modeling and computational science/ engineering is essential. In addition, a background in environmental science is preferred.

The successful candidate will help develop and advance our internal capabilities in the areas of energy resource modeling, with a focus on understanding and interpreting how changes in energy technologies, economics, policies/regulation, market conditions, and climate could impact energy generation. They will also support internal and external research efforts to develop improved life cycle assessment methods that integrate advanced models/concepts such as multi-objective optimization, optimization under uncertainty, decision analysis, and cost-benefit analysis. Additionally, they will contribute to the design and execution of life cycle inventories and impact assessments for a range of products and processes across ExxonMobil's chemical and petroleum business areas.

The successful candidate will be expected to demonstrate strong scientific leadership within both the corporation and the external scientific community. Strong communication skills are essential, as collaboration with other science areas is critical for success. A PhD in engineering (chemical, environmental, mechanical), environmental science, physical chemistry, physics, or similar field is required. Candidates with all levels of experience will be considered.

ExxonMobil offers an excellent working environment and a competitive compensation and benefits package. Please submit your cover letter and resume to our website at www.exxonmobil.com/ex and apply to Energy Resource and Environmental Modeling.

Venkatesh Vasudevan
Emerging Energy Sciences
Corporate Strategic Research
ExxonMobil Research and Engineering Company
Annandale, NJ
Phone: 908.730.2172

4. Energy Systems Engineer: Grid Integration of Utility-Scale PV

This position is responsible for the advanced development of controls and monitoring systems that facilitate the grid integration and interoperability of utility-scale PV power plants. Job Title: Manager, Micro-Grid Systems

This position is responsible for the development of highly integrated power and energy plants that use PV technology in conjunction with other technologies (such as energy storage) for electric generation and non-electric generation applications (e.g. direct mechanical drive applications).

- Bachelors Degree in Mechanical or Electrical Engineering, Masters Preferred
- Minimum 10 years work experience in power plant SCADA controls, monitoring and data historical systems design and testing.
- Experience in power generation plant technology

Strength in the use of personal computers; Microsoft Office Suite (Word, Excel, Access, PowerPoint, Visio); email; internet browsers; control system modeling, simulation, and analysis software (MATLAB); CAD software; programming (SQL, C++, PLC Programming Software); electrical test equipment; and power systems protective devices.

Strong background and experience in the control of solid-state and electro-mechanical power systems; low and medium voltage power systems; and protective relaying for power systems.

High level of expertise in PLC embedded control hardware and software; SCADA; networks; closed loop regulation; digital and analog based systems, and wired and wireless data communication.

Strong background and experience in testing; commissioning; and troubleshooting plant controls, and protection systems.

Michael Flett
Survival Systems Staffing
mike@survivalsystems.com

5. Energy Performance Analysts: HDR S.F., Omaha, Alexandria

HDR is in search of experienced Energy Performance Analysts to join our growing Sustainability groups in our San Francisco, CA, Omaha, NE, and Alexandria, VA offices.

The Energy Performance Analyst will work with HDR project teams to achieve energy-efficient building and system design. This will require working with designers, architects and engineers from the beginning of the design process through construction documents to help optimize energy performance. The Energy Performance Analyst will also manage or participate in energy audits of existing buildings to identify and investigate energy conservation and utility cost reduction measures. This may include site visits, walk-through assessments, energy data collection, basic financial analysis, and report writing.

Key Responsibilities: Participate in HDR charrette process and/or initial project meetings to discuss energy goals. Recommend energy-efficient design solutions and energy-efficient technologies, including lighting, HVAC, and building envelope measures. Serve as a resource to other team members regarding state-of-the-art building systems such as advanced control strategies, daylighting design, natural ventilation, cogeneration, photovoltaic systems, etc. Perform energy and economic analysis of design alternatives using energy modeling software and spreadsheets. Develop detailed energy models using DOE-2 compliant software. Prepare documentation required for obtaining LEED energy credits. Meet with clients and team members to discuss energy efficient solutions for mechanical and lighting systems. Ability to manage and schedule a project in its entirety. Perform energy audits of existing buildings.

The following skills are required: Degree in Engineering, Architectural Engineering, or related field. 10+ years experience. Demonstrated practical experience, competence, and proven expertise in evaluating state-of-the-art building designs and energy-efficiency technologies. Thorough understanding of mechanical systems and controls and knowledge of the specialized requirements of highly technical facilities such as hospitals and laboratories. Ability to develop detailed DOE-2 or eQuest energy models. Experience working within the architectural design process. Understanding of energy efficient commercial lighting systems. Availability to travel out of state. Excellent writing and documentation skills. Excellent presentation skills with the ability to speak with confidence to building owners, facility personnel, contractors, architects and engineers. The following skills are preferred but not required for this position: Experience with Building Commissioning processes. Licensed as a Professional Engineer. Certified Energy Manager Accreditation. Understanding of renewable energy technologies and sustainable design as applied to commercial construction. Daylighting Modeling. Identification and Analysis of Water Efficiency Measures.

HDR is an architectural, engineering and consulting firm that excels at complex projects and solving challenges for clients. More than 7,700 professionals, including architects, engineers, consultants, scientists, planners, and construction managers, in over 165 locations worldwide, pool their strengths to provide solutions beyond the scope of traditional A/E/C firms.

To apply please log on to www.work4hdr.com or send resume to keegan.yager@hdrinc.com

6. Clean Energy Fellow positions at Massachusetts Dept Energy Resources

The Massachusetts Department of Energy Resources is looking for 5 outstanding people to join a high-performance team managing the state's stimulus efforts around clean energy. If you're interested in an intense 1-year experience building a new initiative from the ground-up and learning about energy policy along the way, the Clean Energy Fellow position might be a good fit. Learn more about the position at: <http://bit.ly/eDczv> .

To apply for one of the Clean Energy Fellow positions, please send an email to vivek.mohta@state.ma.us with a resume and cover letter attached by July 9th. The subject line for the email should be "Clean Energy Fellow" and files should be attached in PDF format as LastName_FirstName_Resume.pdf and LastName_FirstName_Cover.pdf.

Best,
Vivek

Vivek Mohta, Director - Energy Markets
Massachusetts Department of Energy Resources
100 Cambridge Street, Suite 1020, Boston, MA 02114
Ph: 617.626.7365 Fax: 617.727.0030
<http://www.mass.gov/doer/>

7. City of Alameda Municipal Power: Assistant General Manager

Assistant General Manager for Energy Resource Planning at Alameda Power & Telecom

Short Version (note the 4-day 36-hour work week by the way):

The City is seeking an experienced, innovative and service-oriented professional to plan, coordinate and direct all energy resource planning activities of AMP. The new Assistant General Manager-Energy Resource Planning will be an exceptional and engaging strategic leader who combines strong analytical skills, an inclusive, collaborative, and participative management style with a true passion and heart for community service. A creative and entrepreneurial approach to providing electric and services and a proven history of success in these areas is required.

The ideal candidate will possess excellent technical and analytical skills, excellent interpersonal and communication skills, a strong bias for action, and a team oriented and mentoring style, which are critical in providing leadership and guidance within a fluid, fast paced and results-oriented working environment. Excellent political awareness and acumen is equally important, although an apolitical orientation is an absolute requirement. A BS degree in engineering, economics, business/public administration or closely related field and five years of progressively responsible professional experience in utility economics, resource planning and management, at least two of which shall involved managing resource planning in a supervisory capacity. A related masters degree and experience in a utility business operation is desirable.

The Assistant General Manager-Energy Resource Planning serves a key role as a business partner and team member of AMP's senior management team. The new manager is expected to be an excellent team player, provide leadership and to develop continuity in the organization.

Here is a link to the online posting:

<http://www.ci.alameda.ca.us/hr/recruitments.html>

Girish Balachandran
General Manager
Alameda Municipal Power
2000 Grand St
Alameda, CA 94501
510 748 3905

8. Senior Analyst to work in Sacramento for NREL

NREL is seeking to hire a Principal Analyst in the Sacramento, CA area (Bay area probably fine) to lead interactions with California state agencies. This is a very senior position – PhD plus 17 years experience is requested. Extensive experience at or with California state agencies, other national labs, or similar type positions will be valuable. Position description is attached.

Potential applicants should consider contacting us quickly as this position has been posted a while, but the hiring manager just requested I forward names of potential applicants by July 13. Contact me directly at Garvin.heath@nrel.gov with enough information about your interest and qualifications that I can forward to the hiring manager. I can refer potential applicants to the position.

o Provide analytic leadership of energy analysis and planning capabilities to ensure the integrity and credibility of NREL analytic technical support. Provide senior technical support to California institutions on behalf of NREL, including the California Energy Commission, California Air Resources Board, and California Public Utilities Commission.

Develop and lead partnerships with leading California Universities to support the Joint Institute for Strategic Energy Analysis. Provide analytic leadership to the Office of Energy Efficiency and Renewable Energy (EERE), NREL senior management and other stakeholders as assigned.

James Newcomb
Group Manager
Market, Policy, and Impacts Analysis
Strategic Energy Analysis Center
National Renewable Energy Lab
james.newcomb@nrel.gov
Direct: 303-384-7481
1617 Cole Blvd.
Golden, CO 80401 USA

9. Online Marketing Internship: Wattbot

Wattbot is a San Francisco-based angel-funded web startup in the residential clean energy space < <http://www.wattbot.com> >.

What is Wattbot?

Wattbot is a free web-based energy expert that simplifies the design, financing and purchase of clean energy solutions automatically. For anyone thinking about energy efficiency and clean energy, Wattbot is the best way to find advice on which products and services make sense for their individual needs. Using the world's largest commercial database of energy-related information, Wattbot's mission is to significantly reduce the time, money and knowledge required to implement clean energy solutions.

What we're looking for:

We're looking for a couple of experienced online marketing interns to join our team. We are a virtual company with a world-wide distributed team, so these interns are on a 3-month contract basis, with a minimum of 10 hours per week. The desired candidates will have experience with Google Analytics, search engine optimization techniques and an interest in clean energy.

Compensation:

These are unpaid internships, but you will learn a lot!

How to apply:

Send your resume to jobs@wattbot.com and explain why you're the best guy or girl for the internship.

10. Loads of Open Renewables Jobs at NREL:

In the last 5 years, the National Renewable Energy Laboratory has grown from 900 to over 1600 employees. NREL is currently hiring scientists, research technicians, engineers, analysts, managers and project leaders, administrators and communicators. Research spans biomass, fuels, solar, wind, vehicle technologies, buildings, geothermal and hydrogen.

Job postings are updated daily to weekly here:

http://www.nrel.gov/employment/job_openings.html

If you would like to apply, Stanford alum Robb Barnitt can help by referring you into the system. Email your full name and a preferred email address torobb.barnitt@nrel.gov .

Robb Barnitt
National Renewable Energy Laboratory (NREL)
1617 Cole Blvd. MS1634
Golden, CO 80401
303.275.4489 (office)
303.589.4222 (mobile)
303.275.3765 (fax)
robb.barnitt@nrel.gov
<http://www.nrel.gov/vehiclesandfuels>

Faculty Positions in renewable energy:

1. King Abdullah University of Science and Technology, Thuwal, Saudi Arabia

Assistant, Associate and Professor positions in their Center for Solar and Alternative Energy Science and Engineering. Seeking excellent candidates in materials science and photovoltaic technologies.

<http://www.kaust.edu.sa>

Apply by email to: solar@kaust.edu.sa

2. University of Denver, E.E. and C.S.

Assistant and Associate Professor positions in the Department of Electrical Engineering and Computer Engineering.

- 1) Wireless communication with applications in networks, sensors, smart infrastructure systems.
- 2) Energy Systems Engineering with applications in wind energy, fuel cells, clean energy and sustainable systems.

Contact: <http://www.Du.Edu/HR/Employment/Jobs.html>

3. Purdue University, Mechanical Engineering Department

Kenninger endowed Professorship in Renewable Energy and Power Engineering.
Renewable and alternative energy sources, energy transformations such as fuel cells
and the rapidly improving energy storage systems. etc.

Contacts:

Professor Jay Gore
Search Committee Chair
gore@purdue.edu

Also: Marion Ragland (ragland@purdue.edu)

4. George Washington University, Mechanical and Aerospace Engr Department, D.C.

Two faculty positions in Energy Engineering, examples of possible focus include
renewables (wind, solar, wave, etc.), energy generation, energy utilization (fuel
efficiency, biofuels), energy conversion and storage.

Contact MAE Faculty Search Committee: energy@gwu.edu

5. Energy and Environment Lecturers Needed for San Jose State, Fall Quarter

Department of Environmental Studies at San Jose State University
FALL 2009 LECTURER ANNOUNCEMENT

The Department of Environmental Studies seeks lecturers for one section of each of
these courses:

- Environmental Economics (EnvS 107)
- Solar Energy Theory and Applications (EnvS 116)
- Energy and the Environment (EnvS 119)
- Energy Policy Analysis (EnvS 130)

Visit <http://www.sjsu.edu/depts/EnvStudies/> <<http://www.sjsu.edu/depts/EnvStudies/>>
to review course descriptions and see <http://info.sjsu.edu/home/schedules.html>
<<http://info.sjsu.edu/home/schedules.html>> for the Fall 2009 Schedule of Classes.

General Qualifications: Applicants must have at least an M.S. (Ph.D. preferred) in Environmental Science, Studies or a related field. University-level teaching experience is preferred. Professional experience, in addition to the M.S., will also be considered. Applicants must be well-organized, energetic, and able to provide a supportive learning experience to students with a wide variety of personal and professional backgrounds. Specific qualifications for the courses are provided below.

Important Notes:

- Lecturers teaching 2 or more sections are eligible for benefits from the University!
- Instructors selected will be provided substantial course materials to help with class design.
- Application evaluations will begin on July 20, so apply by then for priority consideration.

Application Procedures:

Positions vacant until filled, but priority will be given to those applying by July 20. Please send a letter of application, vitae/resume, names of three professional/academic references, and an informal copy of your graduate transcripts toltrulio@earthlink.net <mailto:ltrulio@earthlink.net> or to:

Dr. Lynne Trulio, Interim Chair
San Jose State University
Department of Environmental Studies
One Washington Square
San Jose, CA 95192-0115

For more information, please email Dr. Trulio at ltrulio@earthlink.net <mailto:ltrulio@earthlink.net> or call 408-924-5450.

energyfolks mailing list

energyfolks@lists.stanford.edu

<https://mailman.stanford.edu/mailman/listinfo/energyfolks>

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Job details

Job 1 of 1

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Posting Title Principal Analyst - CA

Requisition Number 602BR

Location Sacramento (Area), CA

Position Type Regular Employee

Hours Per Week 40

Job/Research Summary Provide analytic leadership of energy analysis and planning capabilities to ensure the integrity and credibility of NREL analytic technical support. Provide senior technical support to California institutions on behalf of NREL, including the California Energy Commission, California Air Resources Board, and California Public Utilities Commission. Develop and lead partnerships with leading California Universities to support the Joint Institute for Strategic Energy Analysis. Provide analytic leadership to the Office of Energy Efficiency and Renewable Energy (EERE), NREL senior management and other stakeholders as assigned. Work with DOE and NREL Senior staff to define analytic directions and approaches, integrate and interpret results, standards of practice and communicate the resulting information in publications and presentations. Lead analytic teams on high profile, complex tasks and interpret results to provide decision support analysis for CA institutions, NREL and DOE. Provide strategic advice in terms of options and implications to CA institutions, NREL and DOE/EERE management.

Job Duties

1. Provide analytic leadership. This position will be responsible for defining effective approaches to addressing a variety of analytic issues important to EERE strategies and programs, for outlining specific analytic plans, and for directing and insuring the execution of these studies. Incumbent will be responsible for leading areas in all aspects of the energy economy, and to effectively integrate energy security, environment and economic impact considerations. These activities will draw on the incumbent's knowledge of state-of-the-art analysis tools and methods, knowledge of EERE technologies, program activities, policies and markets, as well as on the ability to lead the development of new methods and tools as appropriate to the problem. The activities will also rely on the incumbent's experience in project leadership and management. (40%)

2. Interpreting and integrating analytic studies. This position will make significant contributions in the area of reviewing analyses, integrating the results of various studies and articulating their implications in support of NREL and EERE energy program planning and management as well as initiative formulation efforts. (40%)

3. Lead Analytic Efforts. This position will develop nationally recognized analytic leadership in select areas critical to advancement of the understanding of the potential contributions of EERE technologies to the nation and globally. Examples of possible areas include: Market adoption characterization utilizing state of the art approaches and model development, geospatial analytics, and uncertainty analysis. (20%)

Minimum Qualifications Relevant Doctoral Degree and 17 years experience or equivalent relevant education/experience.

Preferred Qualifications Ph.D. in economics, mathematics, statistics, engineering, operations research, or a related energy or environmental field, plus 17 years relevant experience. Strong background and knowledge of energy technologies, applications, policies or markets, and energy R&D programs. Demonstrated technical leadership, including strategic planning, team leadership, and project management. Demonstrated analytical background, including modeling, computational and computer skills related to energy analysis. Excellent communication and interpersonal skills. Proven ability to work effectively with teams and with experts across a variety of institutions and ability to integrate individual contributions and interpret results in a broader context.

PREFERRED: Strong publication record in energy analysis or a closely related field. Proven ability to secure funding for energy analysis and to lead analytic teams in energy related studies. Significant experience in energy and environmental issues.

GENERAL COMMENTS:

The above position description is intended to describe the general nature and level of work being performed by the incumbent. The responsibilities, duties and skills required are not all inclusive and the incumbent may be requested to "perform other duties as assigned."

The incumbent is required to comply with all applicable Laboratory Policies, including Environment, Safety and Health (ES&H) requirements and Laboratory Computer Security procedures, and to support the Laboratory EEO and Affirmative Action activities.

Line Manager Lynn Billman

FLSA Exempt

Salary Band 2

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