

National Renewable Energy Laboratory

Office of Education Programs
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National Association of State Universities and Land
Grant Colleges (NASULGC)

May 21, 2004

Office of Education Programs

Mission/Goals

Mission

- NREL's Office of Education Programs provides leadership for a renewable energy and energy efficient future through energy education programs.

Goals

- Increase knowledge, understanding, and adoption of renewable energy and energy efficiency.
- Develop partnerships to create and strengthen energy education programs.
- Increase the effectiveness of science, engineering, mathematics and technology education in renewable energy and energy efficiency.

Pathway of Opportunities

Youth Education in Science & Technology



CLOUT



**JSS/Hydrogen Fuel Cell
Car Competitions**



EYH



HS Science Bowl



**National Middle
School Science Bowl**



**Regional Middle School
Science Bowl**

Outreach RnE²EW

NREL/BP America Outreach Partnership

- Roll out in D.C.
- Roll out in Denver
- **Partnerships:**
- BP America
- Connecticut Clean Energy Fund (CCEF)
- Colorado Governor's Office of Energy management and Conservation
- Colorado School of Mines (CSM) – DPS
- General Electric



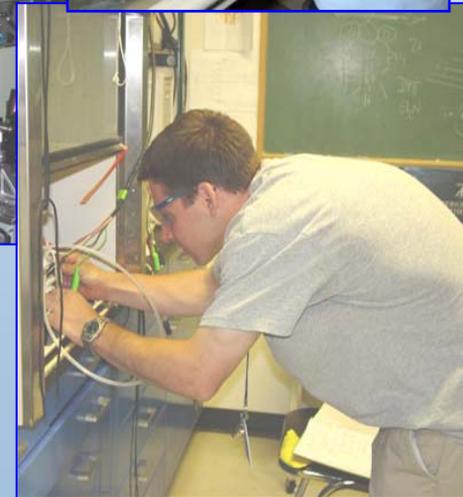
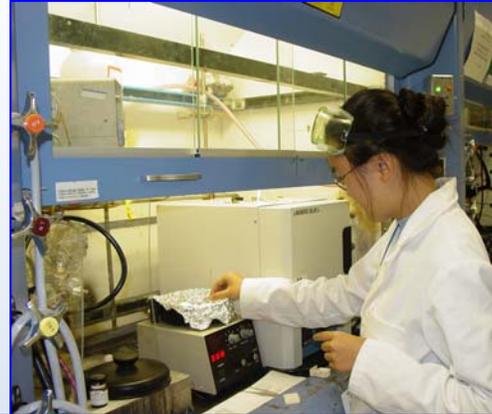
Engaging University Students in Research

Interns

- 29% growth in funding for the intern program, funds to support LSTPD
- Partnerships: DOE Office of Fossil Energy; NASA; DOE Office of Economic Impact
- Biofuels Research Internships Student Appointments

Other NREL Opportunities

- Minority Undergraduate Research Associates
- Local University Research Task Ordering Agreement



Student Benefits

- Direct access to laboratory equipment, facilities, and staff that are not generally available on campus.
- Gain important research experience.
- Learn a variety of research techniques.
- Gain experience working as part of a team - a strong foundation for any successful scientist



Office of Education Programs

2003 Interns

Pre-Service Teachers, Laboratory Science Teachers Professional Development & Science Undergraduate Laboratory Internship



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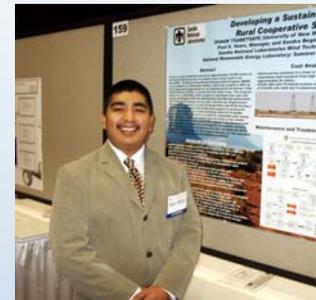
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Summer Interns Accomplishments

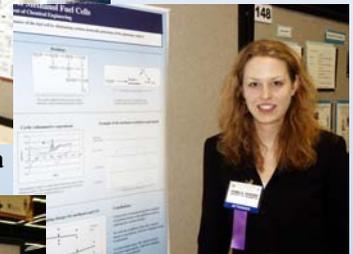
- Five NREL interns presented at the AAAS conference in Seattle.
- NREL has developed alliances to secure additional funding for intern positions.
- Expected number for 2004 is 50 – 60.



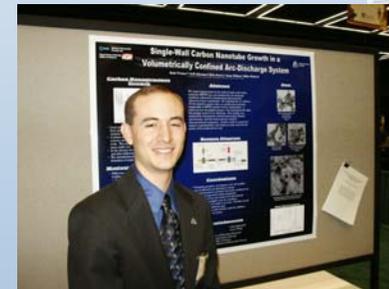
Bioenergy



Native American at Sandia



Hydrogen



Basic Sciences



Natl. Center for Photovoltaics

NREL and University Partnerships

America Educational Institute

Arizona State University

University of Arizona

University of Nevada Reno

University of Wisconsin System

California Institute of Technology

Case Western Reserve University

Colorado School of Mines

Colorado State University

Cornell University

Duke University

Georgia Tech Research Corp.

Iowa State University

Massachusetts Institute of Technology

New Jersey Institute of Technology

New Mexico State University

North Carolina A&T State University

Northwestern University

Ohio State University Research

Foundation

Oregon Institute of Technology

Pennsylvania State University

Harvard College

University of Colorado

State University New York

Rochester Institute of Technology

Southern University/A&M College

St. Petersburg Electrontechnical

University

Texas Tech University

Universidad De Magallanes

University of Arkansas

University of California

University of California at Berkley

University of California Davis

University of Central Florida

University of Colorado

University of Delaware

University of Florida

University of Illinois

University of Louisville

University of Maryland

University Massachusetts

University of Michigan

University of Nevada-Las Vegas

University of North Carolina at
Chapel Hill

University of North Texas

University of Oklahoma

University of Oregon

University of Puerto Rico-Mauagiez

University of So. Florida

University of Toledo

University of Utah

University of Wisconsin

University of Wyoming

Virginia Polytechnic Institute &
State University

Washington State University

West Virginia University

Number of Teachers and Students Served Annually

