

# **SUNY-ESF** **Improve Your World**



## **Career and Graduate School Options**

State University of New York  
College of Environmental Science and Forestry



ESF graduates get jobs all over the world, in all kinds of locations and all kinds of environments.

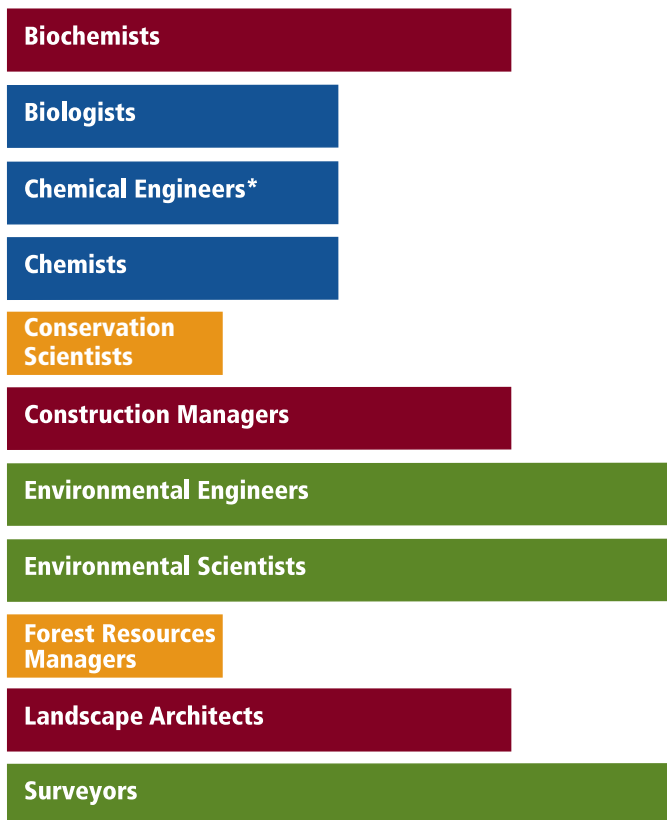
Some work in their hometowns. Others work in exotic locales in Africa, Europe, or Asia. Some work in a forested wilderness area. Others work in high-tech manufacturing environments or state-of-the-art laboratory facilities. Many work in the nation's urban centers; others in suburban and rural towns and villages.

ESF graduates have a wealth of opportunities to pursue because the College emphasizes problem-solving and communications skills as much as it focuses on science and professional training.

In the following pages you will find examples of many careers that ESF alumni have pursued successfully, as well as some of the graduate degree programs they have entered.

ESF's academic program areas are affiliated with some of the largest industries in the United States. The U.S. Department of Labor predicts that, early this century, job opportunities for our graduates will continue to grow. You can prepare for a career that will change the world by choosing SUNY-ESF.

### U.S. Department of Labor Projections for Employment Growth 2006-2016



Legend: up to 6% 7 to 13% 14 to 20% 21% or more

\*Includes Paper/Bioprocess Engineers

## Job Titles for Recent ESF Graduates

### Chemistry

Air Quality Specialist  
Analytic Chemist  
Biochemist  
Chemical Engineer  
Chemical Marketing Representative  
Chemical Research Engineer  
Environmental Analyst  
Environmental Chemist  
Environmental Inspector  
Field Chemist  
Hazardous Material Specialist  
Hazardous Waste Engineer  
Hazardous Waste Site Manager  
Industrial Hygienist  
Laboratory Supervisor  
Medical Lab Researcher  
Natural Products Chemist  
Organic Chemist  
Pesticide Residue Chemist  
Pharmaceutical Chemist  
Pollution Analyst  
Pollution Control Specialist  
Polymer Chemist  
Product Development Chemist  
Public Interest Chemist  
Quality Assurance Chemist  
Radiation Protection Specialist  
Research Biochemist  
Research Chemist  
Technical Service Representative  
Toxicologist  
Water and Air Quality Analyst

### Construction Management and Wood Products Engineering

Assistant Production Manager  
Building Construction Engineer  
Building Contractor  
Building Materials Specialist  
Building Products Representative  
Construction Engineer  
Construction Materials Inspector  
Construction Plans Examiner  
Construction Supervisor  
Contract Specialist  
Cost Estimation Manager  
Export Timber Sales Representative  
Forest Resources Specialist  
Industrial Engineer  
Log Buyer  
Lumber Inspector  
Lumber Shipping Supervisor  
Lumber Trader  
Manufacturing Engineer  
Product Development Engineer  
Product Marketing Engineer  
Production Cost Estimator  
Project Engineer  
Project Estimator  
Quality Control Engineer

Quality Control Supervisor  
Safety Inspector  
Simulator Facilities Engineer  
Technical Sales Representative  
Truss and Components Engineer  
Wood Preservation Specialist  
Wood Products Engineer  
Wood Products Management Trainee  
Wood Products Production Foreman  
Wood Products Specialist  
Wood Research Associate  
Wood Science Researcher  
Wood Technologist  
Wood Treatment Engineer  
Wood Truss Designer

### Environmental and Forest Biology

Agricultural Extensionist  
Agriculture Researcher  
Agronomist  
Air Pollution Control Analyst  
Animal Ecologist  
Animal Physiologist  
Animal Scientist  
Aquatic Biologist  
Aquatic Ecologist  
Associate Zoo Director  
Biology Teacher  
Biometrician  
Botanist  
Clinical Laboratory Investigator  
Coastal Zone Resources Specialist  
Commercial Fisherman  
Conservation Biologist  
Conservation Educator  
Cooperative Extension Agent  
Cytologist  
Ecological Inventory Researcher  
Ecological Modeler  
Entomologist  
Environmental Analyst  
Environmental Conservation Officer  
Environmental Consultant  
Environmental Education Specialist  
Environmental Protection Specialist  
Fish and Wildlife Ecologist  
Fish Farmer  
Fish Hatchery Manager  
Fish Pathologist  
Fisheries Biologist  
Forest Entomologist  
Game Biologist  
Geneticist  
Horticulturist  
Ichthyologist  
Industrial Hygienist  
Insect Control Evaluator  
Invasive Plant Specialist  
Invertebrate Ecologist  
Laboratory Animal Supervisor  
Landscape Ecologist  
Limnologist



Mammalogist  
 Marine Resources Specialist  
 Microbiologist  
 Mycologist  
 Oceanographic Ecologist  
 Ornithological Field Researcher  
 Ornithologist  
 Park Naturalist  
 Pesticide Investigator  
 Physician  
 Plant Breeder  
 Plant Pathologist  
 Plant Physiologist  
 Public Health Researcher  
 Public Health Specialist  
 Research Geneticist  
 Research Horticulturist  
 Restoration Ecologist  
 Sanctuary Manager  
 Science Teacher  
 Sea Lion Trainer  
 Seed Orchard Researcher  
 Silviculturalist  
 Soil Conservationist  
 Soil Scientist  
 Surgical Technician  
 Toxicologist  
 Tree Propagation Scientist  
 Urban Park Ranger  
 Vertebrate Physiologist  
 Veterinary Assistant  
 Water Quality Planner  
 Waterfowl Biologist  
 Wetlands Ecologist  
 Wildlife Biologist  
 Wildlife Conservation Specialist  
 Wildlife Manager  
 Wildlife Researcher  
 Zoo Curator  
 Zoologist

## Environmental Resources Engineering

Aerial Photograph Interpreter  
 Analytical Engineer  
 Bridge Construction Engineer  
 Cartographer  
 Civil Engineer  
 Construction Engineer  
 Construction Grants Specialist  
 Design Engineer  
 Energy Auditor  
 Energy Efficiency Specialist  
 Energy Planning Supervisor  
 Energy Supply Engineer  
 Engineering Materials Specialist  
 Environmental Engineer  
 Environmental Field Geologist  
 Environmental Land-use Specialist  
 Environmental Research Analyst  
 Flood Control Specialist  
 Forest Engineer  
 Forest Products Engineer  
 Geodesist  
 Geotechnical Engineer  
 Ground Water Investigator  
 Hazardous Waste Specialist  
 Highway Engineer  
 Hydrogeologist  
 Hydrologist  
 Natural Resource Engineer  
 Packaging Engineer  
 Parks and Recreation Supervisor  
 Photogrammetric Engineer  
 Photogrammetrist  
 Pollution Control Engineer  
 Public Service Engineer  
 Public Utility Manager  
 Public Works Engineer  
 Reservoir Engineer  
 Solar Energy Specialist  
 Structural Engineer  
 Transportation Analyst  
 Transportation Environmental Specialist  
 Waste Management Specialist  
 Wastewater Environmental Engineer  
 Water Resources Engineer  
 Water Rights Engineer  
 Water Source Protection Manager

## SUCCESS STORIES

### Mary Gifford,

*Environmental Resources Engineering B.S. '05*

"Growing up, I romantically envisioned that I would become the next Jane Goodall, travel to Africa and study chimps all day," said Mary Gifford.

That dream brought Gifford to ESF because faculty members at the College immerse themselves in science and apply their work to real-world problems.

In just a few months after graduating from ESF, Gifford had begun working on domestic climate change policy with the United Nations. Her first job was working for the chairman of the Intergovernmental Panel on Climate Change in India, which gave Gifford the opportunity to travel. She has since traveled to more than 15 countries.

Gifford is currently working on her M.S. through the University of California, Berkeley, and her Ph.D. through the Potsdam Institute for Climate Impact Research in Berlin, Germany. In her Ph.D. program, she has an opportunity to advise the chancellor of Germany and the European Union on climate change policy.

"I am currently working on ways funding can be channeled into countries in South Asia to fund green energy while providing much-needed income and social support for more than two billion people who make less than two dollars a day," Gifford said.

### Ronald J. Eby,

*Chemistry B.S. '69, Ph.D. '74*

Dr. Ronald Eby is a renowned researcher who has helped safeguard the health of children worldwide by developing vaccines formulated specifically for children.

Eby's work in the field began in 1965, when he enrolled at ESF as a chemistry major. "I was interested in medicine, especially in medical research. I got hooked on carbohydrate chemistry because of the medical possibilities," Eby said.

Upon leaving ESF, Eby went to work with Praxis Biologics in Rochester, N.Y., where he and his team went to work developing a vaccine, Prevnar, which would become the most efficacious vaccine ever developed. According to the World Health Organization, before the introduction of Prevnar, more than 1 million deaths of children under the age of 5 were blamed on the *Streptococcus pneumoniae* disease that Prevnar has all but eliminated.

For these advancements in pediatric medicine, Eby received the National Medal of Technology, the nation's highest honor for technological innovation. The award was bestowed by President Bush at the White House in July 2007.

"Some might say we were lucky in discovering, scaling up and manufacturing the Prevnar vaccine," Eby said after the White House award ceremony. "But as the Roman philosopher Seneca said, 'Luck is what happens when preparation meets opportunity.'"

# SUCCESS STORIES

## Richard P. Wagenaar

*Forest and Natural Resources Management '82*

Col. Richard P. Wagenaar FRM '82 was just six weeks into his new job as leader of the New Orleans District of the U.S. Army Corps of Engineers when Hurricane Katrina blew into southeastern Louisiana.

"When it struck, I still hadn't even met some of my employees yet. I didn't know all the streets in the city," Wagenaar said. "The hurricane was truly an indoctrination I didn't expect."

Within a few weeks, Wagenaar saw his annual budget balloon from \$350 million to some \$3 billion. The focus of his work narrowed from a variety of areas to hurricane protection and environmental restoration.

"I'm running a billion-dollar corporation here," Wagenaar said.

His ESF education led him to approach his job with the sensibilities of an environmental scientist in addition to the technical expertise of an engineer.

"The Corps of Engineers is probably the largest civil engineering organization in the world, and probably 50 percent of the leaders are engineers," he said. "They typically don't have environmental scientists as leaders. I just lead the district a little differently."

## Jeff Lyng

*Environmental Biology, B.S. '01*

Jeff Lyng is serving the citizens of Colorado as part of his job in the Governor's Energy Office. Lyng's mission is to reduce the energy intensity of Colorado's built environment and to incorporate renewable energy.

As a student at ESF, he studied systems ecology under Dr. Charles Hall. "Charlie Hall played a huge role in shaping my perspective on energy consumption and educating me on the principles of energy return on investment," he said. "To have a bigger impact I had to plug in where I could be directly mitigating the need for electrical energy." This revelation took him to the University of Colorado, where he earned his master's degree in building systems engineering and was project leader for the winning team in the 2005 U.S. Department of Energy Solar Decathlon. The victory brought him to the White House as a guest of First Lady Laura Bush for the 2006 State of the Union address at which President Bush declared our nation's oil addiction.

At the Governor's Office, Lyng is working on statewide incentives for photovoltaics and solar hot water systems. "The statewide solar program that we are implementing will encourage thousands of homeowners and small business owners to participate in Governor Ritter's New Energy Economy by harvesting the most abundant energy source, the sun."



## Environmental Science and Environmental Studies

Capital Project Coordinator  
Cartographer  
Community Resource Development  
Cultural Impact Analyst  
Energy Auditor  
Energy Planner  
Environmental Affairs Director  
Environmental Analyst  
Environmental Communications Assistant  
Environmental Economist  
Environmental Lobbyist  
Environmental Marketing Representative  
Environmental Planner  
Environmental Protection Assistant  
Environmental Scientist  
GIS Specialist  
Interpretive Naturalist  
Land Use Planner  
Legislative Fellow  
Legislative Science Assistant  
Natural Resources Economist  
Natural Resource Legal Assistant  
Nature Education Specialist  
Park Historian  
Park Manager  
Public Lands Coordinator  
Recycled Paper Promoter  
Recycling Coordinator  
Regulatory Specialist  
Resource Planner  
Resources Policy Analyst  
Science Education Specialist  
Science Educator  
Science Teacher  
Wilderness Survival Instructor  
Watershed Conservation Specialist

## Forest and Natural Resources Management

Adirondack Park Project Assistant  
Arborist  
Assistant Professor  
Biometrician  
Chief Naturalist  
Coastal Analyst Forester  
Coastal Zone Management Specialist  
Community Forestry Specialist  
Conservation Educator

Conservation Scientist  
Consulting Forester  
Cooperative Forest Manager  
Environmental Conservation Officer  
Environmental Consultant  
Environmental Editor  
Environmental Impact Analyst  
Environmental Protection Specialist  
Environmental Researcher  
Forest Ecologist  
Forest Economist  
Forest Examiner  
Forest Pathologist  
Forest Property Appraiser  
Forest Recreationist  
Forest Resource Planner  
Forestry Research Associate  
Forest-wildlife Manager  
GIS Program Manager  
Horticultural Program Coordinator  
Horticultural Specialist  
Hydrologist  
Interpretive Naturalist  
Land Acquisition Specialist  
Land Claims Adjuster  
Land Use Economist  
Land Use Specialist  
Legislative Science Advisor  
Logging Safety Representative  
Natural Resource Coordinator  
Natural Resource Scientist  
Nursery Manager  
Outdoor Recreation Planner  
Park and Recreation Supervisor  
Park Interpretive Specialist  
Park Manager  
Park Naturalist  
Park Planner  
Park Ranger  
Public Recreation Specialist  
Range Conservationist  
Range Manager  
Range Scientist  
Refuge Forester  
Research Forester  
Science Writer  
Seed Orchard Manager  
Silviculturist  
Soil Conservationist  
Soil Scientist  
Surveyor

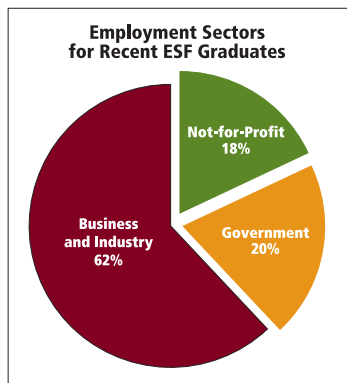
Timber Management Specialist  
 Timber Procurement Analyst  
 Tree Improvement Forester  
 Tree Nursery Supervisor  
 Tropical Forest Researcher  
 Urban Forester  
 Urban Park Program Coordinator  
 Urban Park Service Manager  
 Urban Tree Manager  
 Water Management Staff Scientist  
 Watershed Forester  
 Woodlands Manager

### The Ranger School – A.A.S. Forest Technology and Land Surveying Technology Programs

Arboriculturist  
 Arborist  
 Assistant Forest Ranger  
 Biotechnician  
 Civil Technician  
 Conservation Technician  
 Entomology Research Assistant  
 Environmental Technician  
 Fish and Wildlife Technician  
 Forest Consultant  
 Forest Technician  
 Forestry Contractor  
 Land Surveyor  
 Lumber Buyer  
 Lumber Grader  
 Park Ranger  
 Parks and Recreation Specialist  
 Procurement Forester  
 Recreation Technician  
 Soil/Water Technician  
 Surveyor (Construction & Forest)  
 Timber Cruiser  
 Timber Inventory Technician  
 Vegetative Control Supervisor  
 Wetland Ecologist

### Landscape Architecture

Adirondack Park Project Specialist  
 Architectural Estimator



CADD Operator  
 City Planner  
 Coastal Zone Resource Specialist  
 Community Planner  
 Engineering Draftsman  
 Environmental Planner  
 Environmental Project Manager  
 GIS Mapper  
 Highway Landscape Architect  
 Historic Preservation Architect  
 Historic Preservation Officer  
 Horticultural Specialist  
 Junior Environmental Designer  
 Land Use Planner  
 Land Use Planning Supervisor  
 Landscape Architect  
 Landscape Contractor  
 Landscape Designer  
 Landscaper  
 Park Engineer  
 Park Landscape Architect  
 Parks and Recreation Planner  
 Planning Draftsman  
 Planning Specialist  
 Recreation Planner  
 Regional Planner  
 Site Planner  
 Transportation Planner

### Paper and Bioprocess Engineering

Fiber Products Technical Director  
 Paper Chemist  
 Paper Coating Engineer  
 Paper Machine Engineer  
 Paper Mill Manager  
 Paper Production Engineer  
 Paper Researcher  
 Paper Service Engineer  
 Paper Testing Engineer  
 Plant Environmental Manager  
 Pollution Control Advisor  
 Process Control Supervisor  
 Process Engineer  
 Product Development Specialist  
 Product Evaluation Specialist  
 Project Engineer  
 Quality Control Supervisor  
 Sales Representative  
 Supervisor of Pulp Testing  
 Technical Manager – Paper  
 Technical Service Engineer

## SUCCESS STORIES

### Anne Papageorge

*Landscape Architecture, B.L.A. '83*

When Anne Papageorge graduated from ESF, she envisioned herself working in an urban environment. What she did not see was the role she would eventually play in building a national memorial.

As senior vice president for memorial, culture and civic development with the Lower Manhattan Development Corporation (LMDC), Papageorge was entrusted with a pivotal role in memorializing the more than 2,700 people killed at the World Trade Center in the attacks on Sept. 11, 2001.

Papageorge managed the planning, design and construction of the nearly \$1 billion project encompassing the World Trade Center Memorial, memorial museum and related facilities.

"At LMDC we all said we had a need to do this job, having lived through 9/11. We wanted to be a part of rebuilding New York City," she said.

Papageorge drew on many of the lessons she had learned as an LA student at ESF. "I approached the project as I learned at ESF — by applying the same design process to a large complicated project as you would to a smaller project."

After two years working on plans for the memorial, and with construction having begun in 2006, Papageorge felt it was time to move on to new challenges.

She went to the University of Pennsylvania in Philadelphia, where she is now the vice president of facilities and real estate services.

### Luke Cartin

*Environmental Studies, B.S. '01*

When Vail Resorts Inc. purchased nearly 152,000 megawatt-hours of wind energy for its mountain resorts, ESF alumnus Luke Cartin '01 shared the credit for making it happen.

"I would like to thank all of our environmental coordinators for helping put this program together and in particular, Luke Cartin who worked very closely . . . in setting the vision for this effort," said CEO Rob Katz.

Cartin described himself as "a behind the scenes guy" who helped develop the idea that made the company the second-largest purchaser of wind power among all U.S. corporations.

He took a combination of engineering classes and public policy classes at ESF, and he said that mix is the reason he was able to get a job as an environmental manager with Vail Resorts, which operates five mountain resorts and scores of retail properties.

"I wouldn't have gotten where I am without the classes I took at ESF," Cartin said.

# SUCCESS STORIES

## Don Moore

*Environmental and Forest Biology B.S. '76, Ph.D. '01*

Don Moore thought he knew a major conservation problem when he saw one. Then he started working with Polar Bears International, an organization dedicated to stewardship of the world's largest land predator.

"I've worked on conservation problems that I thought were big and compared to this, they were small," said Moore, expressing his concern about global climate change and the effect it's having on the habitat of polar bears.

Moore is the associate director of animal care at the Smithsonian National Zoo in Washington, D.C., where he is responsible for creating conservation and animal-management plans for the zoo.

Animal care scientists are "the front line for getting information out to the public," he said. They design complex zoo habitats and provide interpretation and conservation education for zoo visitors.

Moore also serves as a scientific advisor to Polar Bears International, a non-profit organization that works toward the worldwide conservation of the polar bear and its habitat. He said focusing on polar bears helps highlight the need for conservation. He offers simple ways for people to help save the Arctic ecosystem and in turn the polar bear. "Turn off lights and televisions. Reduce garbage and consumption, recycle, reduce your carbon footprint. Save energy and save polar bears."

## Matt Rayo

*Environmental and Forest Biology B.S. '08*

Just 18 months after he graduated from ESF, Matt Rayo won his campaign for a city government seat on the Syracuse Common Council, becoming the youngest person in at least 50 years to be elected to the position.

As councilor, Rayo is responsible for listening to the concerns of his constituents, who are residents of the 1st District on the city's North Side, and working with appropriate government programs and officials to correct any problems. At 23 years old, Rayo is much younger than the average elected official, but he thinks many voters saw his relative youth as a positive factor.

"When I went door to door (during the campaign) and I was talking to people they were very excited to see a young person. Many people said that we need new blood," he said.

Rayo hopes to take what he learned at ESF and apply it in Syracuse. He wants to develop proposals to make the city more sustainable and environmentally conscious.

Rayo believes that going green would benefit the city economically as well, by generating business in the growing area of green technology.

"I think it's important that we attract businesses with a green focus. We need to move forward and make sure we are actively promoting our city to show that we have the jobs of the future," he said.



## Examples of Employers Hiring ESF Graduates

Abbott Labs	IBM
Adirondack Park Agency	Haden Stanziale
Agro Diagnostics Corp.	Hanford Pharmaceuticals
Agway Corporation	Hercules Inc.
Albany Molecular Research	International Paper Co.
AmGen	International Telephone & Telegraph Co.
Appleton Papers, Inc.	James River Corp.
ARCADIS	John Deere Corp.
AT&T	Kimberly-Clark Corp.
Atlantic Testing Labs Inc.	Landplan Partnership Inc.
Bank of America	Land Design North
Bear Mountain State Park	LeChase Construction Services
Blasland, Bouck & Lee, Inc.	Marcal Paper Co.
Boise Cascade Corp.	Marine Science Consortium
Bristol-Meyers Squibb Company	Mead Westvaco
Calgon Corp.	Mobile Chemical Co.
Camp, Dresser & McKee	Monsanto Company
Carborundum Corp.	Mt. State Surveying Co.
Cayuga Nature Center	National Grid
Centex Homes	National Science Foundation
Champion International Corp.	New York City Department of Housing
City of Syracuse	New York City Department of City Planning
Clough, Harbor & Associates	New York City Parks Department
Coastal Designs Inc.	New York State Assembly
Continental Can Corp.	New York State Department of Environmental Conservation
Cornell Research Station	New York State Department of Health
Corning Inc.	New York State Parks & Recreation
C&S Engineers	New York State Department of Transportation
CS Environmental Labs	New York State Power Authority
Cumming Nature Center	Oak Ridge National Laboratory
Defense Mapping Agency	O'Brien & Gere
Diamond Shamrock	Oneida County Planning Department
Domtar Paper	Oneida Research Corp.
Dow Chemical	Osiose Wood Preserving
Eastman Kodak Co.	Owens Corning Fiberglass
Ecological Analysis Inc.	Packaging Corp. of America
Energy Answers Corp.	Potomac Electric & Power Co.
Envirotest Labs Inc.	Proctor & Gamble Corp.
Finch Pruyn Inc.	Purcell Construction Co.
Fairfax County School District	Queens Botanical Garden
Federal Paper Board Co.	RockTenn/Solvay Paperboard
Fisher Landscape Associates	Saratoga Associates Inc.
Fleetwood Homes Inc.	Savannah River Ecology Lab
Florida Department of Forestry	Schenectady Chemicals Inc.
Forecon Inc.	Schlumbergen Inc.
General Electric Corp.	Seatuck Environmental Associates
Georgia Pacific Corp.	Stearns & Wheler Engineers
Goulds Pumps Inc.	Sterling Winthrop Co.
Green Peace	

Stickley Furniture  
 St. Joseph's Hospital  
 Syracuse Research Corp.  
 Taconic Outdoor Education Center  
 Tenneco Corp.  
 Texon Inc.  
 Texas Parks and Wildlife  
 The Architects Collaborative Inc.  
 The Nature Conservancy  
 U.S. Army Corps of Engineers  
 U.S. Bureau of Land Management  
 U.S. Fish & Wildlife Service  
 U.S. Forest Service  
 U.S. Geological Survey  
 U.S. Park Service  
 U.S. Peace Corps  
 U.S. Veterans Administration  
 USG Corp.  
 Westinghouse Electric Co.  
 Weyerhaeuser Co.  
 Woods Hole Oceanographic Institute  
 Xerox Corp.

## Some Graduate Schools Attended by ESF Students

Albany Law School  
 American University  
 Boston College Law School  
 Boston University  
 Brown University  
 Clemson University  
 Columbia University  
 Cornell University  
 Duke University  
 Georgetown University Law School  
 Johns Hopkins University  
 Massachusetts Institute of Technology  
 Michigan State University  
 New York Medical College  
 North Carolina State University  
 Northeastern Law School  
 Northwestern University  
 Ohio State University

Oregon State University  
 Pace University Law School  
 Pennsylvania State University  
 Princeton University  
 Purdue University  
 Rensselaer Polytechnic Institute  
 Rochester Institute of Technology  
 Rutgers University  
 SUNY-Albany  
 SUNY-Binghamton  
 SUNY-Buffalo  
 SUNY-ESF  
 SUNY-Stony Brook  
 SUNY-Upstate Medical University  
 Syracuse University  
 Texas A&M University  
 University of Arizona  
 University of Bergen Norway  
 University of California at Berkeley  
 University of Cincinnati  
 University of Colorado  
 University of Delaware  
 University of Florida  
 University of Georgia  
 University of Illinois  
 University of Kansas  
 University of Maine  
 University of Maryland  
 University of Massachusetts  
 University of Michigan  
 University of Minnesota  
 University of Montana  
 University of Nevada  
 University of New Hampshire  
 University of Notre Dame  
 University of Pennsylvania  
 University of Rhode Island  
 University of Southern California  
 University of Tennessee  
 University of Vermont  
 University of Victoria Canada  
 University of Wisconsin  
 Vanderbilt University  
 Vermont Law School  
 Virginia Polytechnic Institute  
 West Virginia University  
 Yale University

### Adam Missell

*Paper Science and Engineering, B.S. '99*

The next time you cash a check, think of Adam Missell.

Adam is a senior process engineer with Appleton Papers in Appleton, Wisc., working to develop new security features used to verify the authenticity of documents like checks, automobile title papers, and clothing tags bearing company logos. The products include machine-readable threads for currency, special stock for checks, and custom watermarks.

"It's pretty interesting," Adam said. "You take the product from the very beginning and go right through the development and testing. Then it's on the market and you can go out and help the end-use customer."

Adam received several job offers as a senior at ESF. Appleton offered him a chance to work with product development, which was his goal.

Now, Adam holds a patent on one of the features used in a special security product for checks.

"This is an opportunity to take something from the start to the finish," he said.

### Howard "Bud" Ris

*Landscape Architecture, MLA '75*

In the early '70s, the environmental movement was gaining momentum, and Howard "Bud" Ris (MLA 1975) was eager to be a part of the promised changes. After leaving ESF and attaining senior positions in a consulting firm and various government agencies, Ris joined the Union of Concerned Scientists (UCS), a nonprofit partnership of scientists and citizens combining scientific analysis, innovative policy development and citizen advocacy to achieve environmental solutions.

By the time he retired 22 years later as president, Ris had helped the UCS expand to a multi-issue environmental organization tackling legislation that resulted in the introduction of hybrid cars; improving safety standards for nuclear facilities; enacting tax incentives for renewable energy; and mobilizing the scientific community for action on climate change.

It is ESF's George Curry to whom Ris attributes his ability to break complex issues into smaller components and arrive at a solution. "Professor Curry was a very instrumental figure in my life. He taught me that no problem was too big to solve, and he gave me the skills – and the confidence – to do it."





**For more information on ESF Careers, contact:**

Office of Career and Counseling Services  
SUNY College of Environmental Science and Forestry  
110 Bray Hall  
1 Forestry Drive  
Syracuse, New York 13210  
315-470-6660  
FAX: 315-470-4728

**For Admissions information, contact:**

Office of Undergraduate Admissions  
SUNY College of Environmental Science and Forestry  
106 Bray Hall  
1 Forestry Drive  
Syracuse, New York 13210  
315-470-6600  
FAX: 315-470-6933



State University of New York  
College of Environmental Science and Forestry

