

CAREERS

SOIL AND WATER CONSERVATION

Groundwater Specialists work to ensure that groundwater is both available and suitable for drinking and other human and ecological needs; include geologists, geographers, planners, and researchers.

Watershed Managers work to conserve lake, river, and stream water resources for current and future human and ecological needs; include city and community planners, rural land managers, hydrologists, and fisheries biologists.

Hazardous Waste Management Specialists identify hazardous wastes, ensure their safe handling and disposal, and reduce waste production.

Soil Conservationists develop plans to help land users such as farmers, developers, and homeowners, meet their land use objectives while conserving soil resources.

Agriculture Specialists work to provide agricultural products; include crop and soil scientists, engineers, botanists, entomologists, and animal scientists.

PARKS AND RECREATION

Resource Recreation Managers manage outdoor areas for activities such as backpacking, camping, fishing, hunting, snowmobiling, and birdwatching.

Environmental Educators/Interpreters work to educate the public about environmental, cultural, or historical resources.

Community Development Specialists work with governments, businesses, and citizens to create development plans that provide social, economic, and environmental benefits to communities.

Eco-Tourism Specialists work to promote responsible travel to natural areas.

FORESTRY

Forest Ecologists study the interrelationship between the living and nonliving components of forest ecosystems to better understand how they can be sustained.

Forest Managers work with government agencies, community leaders, businesses, and landowners to provide the economic, social, and environmental benefits of forests to current and future generations.

Procurement Foresters work with private and public forest landowners to measure, harvest, and sell trees.

Urban Foresters work with the political, physical, and social aspects of cities to plan, plant, and manage trees in cities and towns.

International Foresters work with local and foreign governments, organizations, and businesses to manage forested areas and manage the trade of forest products.

Wildland Fire Specialists work with landowners, communities, and other natural resource professionals to prevent and control wildfires as well as use fire as a management tool.

WILDLIFE

Wildlife Managers work with landowners, businesses, organizations, and governments to manage outdoor areas for animal habitat.

Range Managers work with governments, landowners, industries, and farmers to manage undeveloped areas for wildlife habitat, cattle grazing, and other human uses.

Wildlife Researchers study animal species to better understand their evolutionary history, range and distribution, habitat needs, and population health.

Law Enforcement Officials enforce laws governing the human use of wild animal, fish, and plant species.

PAPER AND WOOD SCIENCE

Wood Scientists study the physical, biological, and chemical characteristics of wood to improve the manufacture of wood products.

Wood Products Researchers study wood characteristics, manufacturing processes, and societal needs to develop new wood products and production methods.

Pulp and Paper Scientists study the physical, biological, and chemical characteristics of wood, paper pulp, and paper to improve the paper manufacturing process.

Facilities Managers and Engineers oversee and manage manufacturing processes in sawmills, veneer mills, secondary wood products facilities, and paper mills.

• STUDENT PROFILE •

NAME

Rebekah Berger

COLLEGE MAJOR

Wildlife and Biology

COLLEGE MINOR

Captive Wildlife

PLAN(S) AFTER GRADUATION

Veterinary School to become a certified wildlife veterinarian or Graduate School to research wildlife behavior

CAREER GOAL(S)

Work with captive wildlife and integrate knowledge of animals in the wild to benefit captive wildlife

EDUCATION

- Saint Mary High School
- Bachelor of Science in Wildlife and Biology

EXPERIENCE

- **JOB(S):** Fox Cities YMCA - conducting ecological surveys to lay the groundwork for a future nature reserve
- **CLUB(S):** Wildlife Society - vice-president
- **PROJECT(S):** Flying Squirrel Project - co-leader, studied the competition between Northern Flying Squirrels and Southern Flying Squirrels and home range delineation; Small Mammal Project; Raptor Surveys
- **VOLUNTEER WORK:** Mead Wildlife Area - deer aging; Sandhill Wildlife Area - deer aging and wolf tracking; Archibald Lake Association - waterfowl surveys, water quality surveys; Gordon Bubolz Nature Preserve - bluebird surveys

SKILLS

- Critical thinking and problem solving
- Native flora and fauna identification
- Communication skills
- Geographic Information Systems (GIS)
- Knowledge of statistical programs
- Radio-telemetry
- Mammal trapping techniques
- Bird surveying techniques



• STUDENT PROFILE •

NAME

Greyling Brandt

COLLEGE MAJOR

Forest Management and Forest Recreation

COLLEGE MINOR

None

PLAN(S) AFTER GRADUATION

Work as a recreation land use planner with the U.S. Forest Service

CAREER GOAL(S)

Become a district range manager with the U.S. Forest Service

EDUCATION

- Rock Falls High School
- Bachelor of Science in Forest Management and Forest Recreation

EXPERIENCE

- **JOB(S):** Wisconsin Conservation Corps - trout stream restoration and timber stand improvement; Wisconsin Department of Natural Resources fire prevention team - heavy engine unit; Wisconsin Department of Natural Resources - hazard tree removal and trail rehabilitation
- **INTERNSHIP(S):** Superior National Forest - Student Career Experience Program

SKILLS

- Geographic Information Systems (GIS)
- Global Positioning Systems (GPS)
- Database management
- Chain saw safety and maintenance
- Knowledge of Wisconsin environmental regulations
- Budgeting and management
- Interpretive science
- Writing and verbal communication



• STUDENT PROFILE •

NAME

Kelli English

COLLEGE MAJOR

Environmental Education
and Interpretation

COLLEGE MINOR

None

PLAN(S) AFTER GRADUATION

Work as a Park Ranger for
Indiana Dunes National
Lakeshore



CAREER GOAL(S)

To supervise interpretive operations for a place such as a National Park Service unit or be director of education at a nature center

EDUCATION

- Whitney M. Young Magnet High School
- Bachelor of Science in Anthropology (Biological Anthropology)
- Master of Science in Natural Resources (Environmental Education and Interpretation)

EXPERIENCE

- **JOB(S)/INTERNSHIP(S):** Schmeeckle Reserve Visitor Center - graduate assistant; Indiana Dunes Environmental Learning Center - outreach education specialist; National Institutes of Health - research assistant; Cambridge Youth Enrichment Program - counselor
- **CLUB(S):** National Association for Interpretation; Fire Crew; National Parks Conservation Association
- **VOLUNTEER WORK:** Indiana Dunes National Lake Shore; Harvard Club of Chicago

SKILLS

- Public speaking and presenting
- Certified Wildland Firefighter
- Education Programming (Project WILD, Project Learning Tree, Hoosier Riverwatch, Leopold Education Project)
- Acting and interpretation
- First Aid, CPR, and First Responder
- Traveled throughout Southeast Asia, Europe, Mexico, Brazil, and the Caribbean
- Highly proficient in written and spoken Spanish
- Highly proficient in violin, vocal, and theatrical performance

• STUDENT PROFILE •

NAME

Stacy Lueck

COLLEGE MAJOR

Water Resources and Wetlands

COLLEGE MINOR

Soil Science

PLAN(S) AFTER GRADUATION

Graduate School in Environmental Civil Engineering

CAREER GOAL(S)

Work in wetland and water quality restoration

EDUCATION

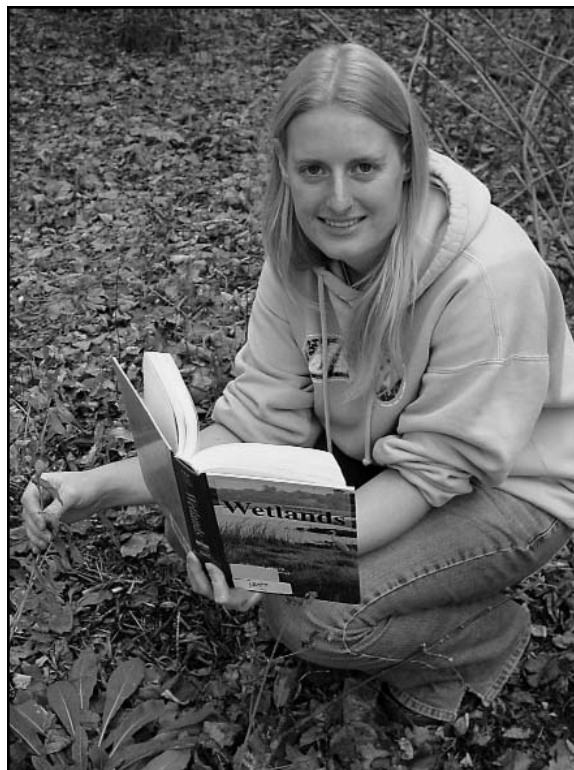
- Chippewa Falls High School
- Bachelor of Science in Water Resources

EXPERIENCE

- **JOB(S):** Department of Natural Resources lake restoration program, University of Wisconsin Extension - design and construction of lakeshore restoration projects, sampled lakes for water quality
- **INTERNSHIP(S):** Wisconsin Department of Transportation - reviewed permits, monitored and delineated wetlands, created mitigation plans
- **CLUB(S):** Isaac Walton League; American Water Resources Association

SKILLS

- Wetland delineation
- Plant identification
- Wildlife identification
- Project leadership
- Computer programs (Excel, Word, PowerPoint, and Access)
- Environmental regulations
- Water sampling
- Boat and ATV safety



• STUDENT PROFILE •

NAME

Ed Moye

COLLEGE MAJOR

Water Chemistry

COLLEGE MINOR

Chemistry and Math

PLAN(S) AFTER GRADUATION

Law School

CAREER GOAL(S)

Work with environmental regulations and policies, specifically focusing on water quality regulations and water allocation including working with the Clean Water Act and National Environmental Protection Act



EDUCATION

- Neenah High School
- Bachelor of Science in Water Chemistry

EXPERIENCE

- **JOB(S):** Research Assistant - greenhouse gas emissions from water; USGS - global warming studies contractor
- **CLUB(S):** American Water Resources Association (AWRA); Soil and Water Conservation Society (SWCS)
- **PROJECT(S):** Aquatic biodiversity survey of a river system in sub-Saharan (southern) Africa; Wisconsin Department of Transportation and Wisconsin Department of Natural Resources - studies concerning the eradication of purple loosestrife

SKILLS

- Various laboratory tests and procedures
- Writing grants and research proposals
- Geographic Information Systems (GIS)
- Global Positioning Systems (GPS)
- Public speaking skills

• STUDENT PROFILE •

NAME

Sarah Orlofske

COLLEGE MAJOR

Biology and Wildlife

COLLEGE MINOR

Chemistry

PLAN(S) AFTER GRADUATION

Graduate School

CAREER GOAL(S)

Become a college professor of herpetology or do research with amphibians

EDUCATION

- Homeschooled
- Bachelor of Science in Wildlife and Biology

EXPERIENCE

- **JOB(S):** Department of Natural Resources - researched threatened species; Wisconsin Humane Society - wildlife rehabilitation assistant
- **INTERNSHIP(S):** Racine Zoo - worked with captive wildlife; USGS - aquatic invertebrate research
- **CLUB(S):** Herpetology Society - numerous positions including president; Undergraduate Research Symposium Committee; Wildlife Society
- **PROJECT(S):** Amphibian-parasite research; Ecological research on new skink species in Portage County; Global amphibian decline related to ecotourism in Peru
- **VOLUNTEER WORK:** Tutor for biology and natural resource college classes

SKILLS

- Knowledge of research process
- Grant writing
- Research proposals
- Monitoring methods for reptiles and amphibians
- Knowledge of microscopes (electron, dissecting, and compound)
- Radiotelemetry
- Numerous computer programs



• STUDENT PROFILE •

NAME

Alexis Sandy

COLLEGE MAJOR

Soil and Land Management

COLLEGE MINOR

Water Resources

PLAN(S) AFTER GRADUATION

Attend Graduate School at Virginia Polytechnic Institute and State University in the Crop and Soil Environmental Science Department

CAREER GOAL(S)

Maintain employment with the Natural Resource Conservation Service (NRCS) and eventually move into private consulting in soils and forestry



EDUCATION

- Little Falls Community High School
- Bachelor of Science in Soil and Water Conservation

EXPERIENCE

- **INTERNSHIP(S):** NRCS - soil conservationist (summers and part-time during the past two academic years), developing conservation plans, worked with landowners to develop and implement conservation practices and management (nutrient management, waste storage, erosion control, water quality)
- **CLUB(S):** Student Chapter of Soil and Water Conservation Society (SWCS) - vice president
- **PROJECT(S):** Horicon Marsh Research Project - presented research and projects at national conventions
- **VOLUNTEER WORK:** Highway cleanup

SKILLS

- Knowledge of GIS and remote sensing
- Leadership skills from jobs and clubs
- Certified Grazing Planner
- Soil taxonomy
- Organic farming training

• STUDENT PROFILE •

NAME

Adam Schmidt

COLLEGE MAJOR

Paper Science

COLLEGE MINOR

Chemistry and Business Administration

PLAN(S) AFTER GRADUATION

Get a job in the paper industry, either in a paper mill or chemical sales

CAREER GOAL(S)

Obtain an MBA and become a vice president or president of a company in the paper industry



EDUCATION

- Mishicot High School
- Bachelor of Science in Paper Science

EXPERIENCE

- **JOB(S)/INTERNSHIP(S):** Menasha Co. (tissue mill) - process engineer, conducted various tests and used a standardizing process to make sure the operations were running smoothly; Chemical sales company in Hinckley, Maine - service position; University of Wisconsin-Stevens Point - worked with the university paper machine
- **CLUB(S):** Paper Science Student Organization
- **PROJECT(S):** Installed a new biocide to kill bacteria
- **VOLUNTEER WORK:** Teach basic papermaking process to third and fourth grade students

SKILLS

- Time management
- Ability to multitask
- Troubleshooting and critical thinking skills
- Knowledge of microscope use and workings
- Knowledge of general paper machine workings
- Tests for bacteria and fungi
- Chemical tests on properties of pulp/paper

• STUDENT PROFILE •

NAME

Takahiro Seki

COLLEGE MAJOR

Resource Management

COLLEGE MINOR

International Resource Management

PLAN(S) AFTER GRADUATION

Work for a few years to gain experience in watershed management and then attend Graduate School



CAREER GOAL(S)

Work toward the sustainable management of resources in developing countries

EDUCATION

- High School Diploma, Japan
- Bachelor of Science in Resource Management

EXPERIENCE

- **JOB(S):** University Center - building assistant
- **CLUB(S):** Wildlife Society; United Nations Student Organization; International Club

SKILLS

- Speak fluent Japanese
- Knowledge of GIS and remote sensing
- International experiences in Europe and New Zealand

• STUDENT PROFILE •

NAME

Chris Tyrrell

COLLEGE MAJOR

Forest Ecosystem Management and Restoration and Biology

COLLEGE MINOR

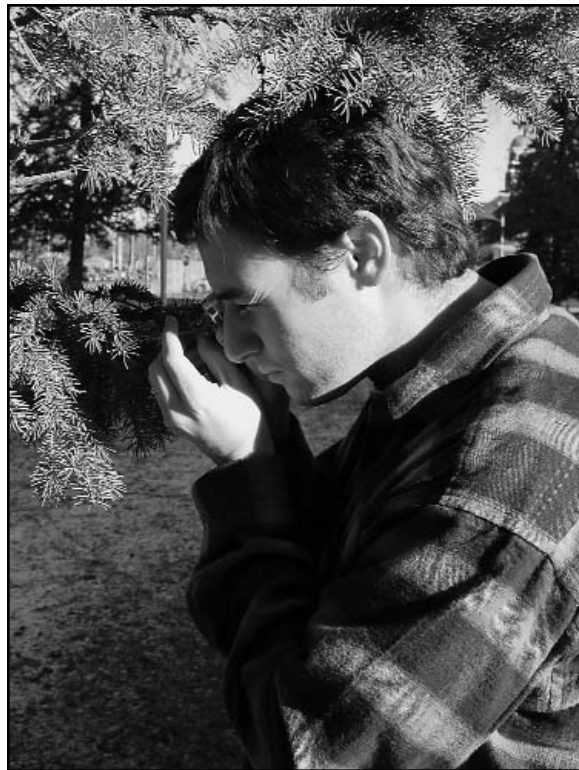
None

PLAN(S) AFTER GRADUATION

Graduate School to pursue a master's degree

CAREER GOAL(S)

GIS specialist with federal government or Conservation Biologist at the state level working with Natural Heritage Inventory Program



EDUCATION

- Charles B. Whitnall High School
- Bachelor of Science in Forestry and Biology

EXPERIENCE

- **JOB(S):** Nature Merit Badge Counselor; National Park Service - biological science technician; Contractor for botany and wildlife monitoring and inventory; Research assistant; University Herbarium Student Database Manager
- **INTERNSHIP(S):** Wehr Nature Center - land management assistant
- **CLUB(S):** Society of American Foresters - treasurer; Society of Ecological Restoration - president; Wildlife Society; Research Symposium Committee; Fire Crew
- **PROJECT(S):** Research and publication on oak savanna forest succession

SKILLS

- Computer skills
- Geographic Information System (GIS)
- Computer programming
- Knowledge of vegetation monitoring and inventory methods
- Creating/managing websites
- Knowledge of research process

• STUDENT PROFILE •

NAME

Kristin Wild

COLLEGE MAJOR

Soil Science

COLLEGE MINOR

None

PLAN(S) AFTER GRADUATION

Work as a soil scientist for the Natural Resource Conservation Service (NRCS) in North Dakota immediately after graduation; duties include soil mapping, data analysis and computer mapping

CAREER GOAL(S)

Become a project leader and oversee soil projects and scientists in the NRCS, be a mom, eventually go back to school to get a teaching degree to teach children about soil science



EDUCATION

- Oshkosh West High School
- Bachelor of Science in Soils

EXPERIENCE

- **JOB(S)/INTERNSHIP(S):** Teaching assistant for a college soils field class; NRCS North Dakota - soil conservationist; NRCS North Dakota - soil scientist
- **CLUB(S):** Student Chapter of Soil and Water Conservation Society (SWCS) - president, research project leader
- **PROJECT(S):** Horicon Marsh research; Soil judging
- **VOLUNTEER WORK:** Teaching soils to second grade students; High school career workshops; Teaching with Wisconsin Groundwater Guardian Program

SKILLS

- Interpersonal skills
- Communication
- Geographic Information Systems (GIS)
- Soil taxonomy

RESUME TEMPLATE

NAME

EDUCATION

1.

EXPERIENCE

1.

2.

3.

SKILLS

1.

2.

3.

OTHER QUALIFICATIONS

1.

2.

3.

FORESTRY POSITION

POSITION: Procurement Forester

HIRING ORGANIZATION: Green Tree Timber Company

DUTIES: Provide timber management assistance and buy trees from nonindustrial private forestland owners. The successful person in this position will promote sustainable forest management on private lands. They will represent Green Tree Timber Company in the professional, business, and social communities in which we operate and oversee environmental management systems and safety regulations. Principle responsibilities include wood procurement, public relations, and safety assurance.

KNOWLEDGE AND SKILLS:

	FIRST RESUME		MODIFIED RESUME			
EDUCATION						
Bachelor's degree in forestry or related field	+	OK	-	+	OK	-
EXPERIENCE						
Forest management	+	OK	-	+	OK	-
Timber production	+	OK	-	+	OK	-
Wood procurement (tree buying)	+	OK	-	+	OK	-
SKILLS						
Basic computer and database skills	+	OK	-	+	OK	-
Global Positioning System (GPS) skills	+	OK	-	+	OK	-
Use of computer forest modeling programs	+	OK	-	+	OK	-
OTHER QUALIFICATIONS						
Carry up to 40 lbs. through rough terrain	+	OK	-	+	OK	-
Good written and oral communication skills	+	OK	-	+	OK	-
TOTAL						

PARKS AND RECREATION POSITION

POSITION: Urban Planner/Park Designer

HIRING ORGANIZATION: City of Green Bay

DUTIES: Preparation of community development master plans, landscape design plans, parks and recreation plans, and similar projects in Green Bay. Primary responsibilities include coordination of regional planning workshops, assisting with biological and water resource assessments, and maintaining compliance with environmental regulations.

KNOWLEDGE AND SKILLS:

	FIRST RESUME			MODIFIED RESUME		
EDUCATION						
Bachelor's degree in parks and recreation, regional planning, or related	+	OK	-	+	OK	-
EXPERIENCE						
Project management	+	OK	-	+	OK	-
Work with environmental regulations	+	OK	-	+	OK	-
Landscape design	+	OK	-	+	OK	-
SKILLS						
Computer design programs	+	OK	-	+	OK	-
Writing and research	+	OK	-	+	OK	-
Facilitation/participation	+	OK	-	+	OK	-
OTHER QUALIFICATIONS						
Written and oral communication skills	+	OK	-	+	OK	-
Work with team	+	OK	-	+	OK	-
TOTAL						

SOIL AND WATER CONSERVATION POSITION

POSITION: Water Resources Specialist

HIRING ORGANIZATION: Wisconsin Department of Transportation

DUTIES: Position will assist in drainage design for highways, bridges, and culverts in southwestern Wisconsin. Responsibilities include floodplain analysis, hydrologic modeling of watersheds, roadway and sewer design, and design of flood control projects to minimize impact of construction activities on wetland and agricultural areas.

KNOWLEDGE AND SKILLS:

	FIRST RESUME			MODIFIED RESUME		
EDUCATION						
Bachelor's degree in water/soil resources, civil engineering, or related field	+	OK	-	+	OK	-
EXPERIENCE						
Research water system characteristics	+	OK	-	+	OK	-
Work with environmental regulations	+	OK	-	+	OK	-
Wetland ecology	+	OK	-	+	OK	-
SKILLS						
Land surveying	+	OK	-	+	OK	-
Surface water modeling	+	OK	-	+	OK	-
Plant identification	+	OK	-	+	OK	-
OTHER QUALIFICATIONS						
Work with team	+	OK	-	+	OK	-
Work outdoors in wet/cold conditions	+	OK	-	+	OK	-
TOTAL						

WILDLIFE POSITION

POSITION: Conservation Biologist – Karner Blue Butterfly

HIRING ORGANIZATION: Wisconsin Department of Natural Resources

DUTIES: Assist with the Habitat Conservation Plan for the Karner blue butterfly in Wisconsin. Develop monitoring methods and provide results in annual reports. Interpret habitat requirements and butterfly life cycle conditions and report Karner blue flight status. Develop conservation strategies and provide technical information to DNR staff on monitoring results and management protocols. Conduct public presentations for environmental groups, professional organizations, landowner associations, and legislators.

KNOWLEDGE AND SKILLS:

	FIRST RESUME			MODIFIED RESUME		
EDUCATION						
Bachelor's degree in conservation biology, wildlife, or related field	+	OK	-	+	OK	-
EXPERIENCE						
Population monitoring	+	OK	-	+	OK	-
Surveying native plant communities in barrens/savanna ecosystems	+	OK	-	+	OK	-
Management of barrens/savanna ecosystems	+	OK	-	+	OK	-
SKILLS						
Geographic Information Systems (GIS) skills	+	OK	-	+	OK	-
Database development and management	+	OK	-	+	OK	-
Public presentation skills	+	OK	-	+	OK	-
OTHER QUALIFICATIONS						
Team leadership/project management	+	OK	-	+	OK	-
Written and oral communication skills	+	OK	-	+	OK	-
TOTAL						

WOOD SCIENCE POSITION

POSITION: Assistant Technology Auditor

HIRING ORGANIZATION: Wood Systems of Wisconsin

DUTIES: Position will work in wood products facilities to assess levels of technology (machinery, computer hardware, software). Position will also develop needs assessments and plans to improve the efficiency of manufacturing processes. Primary responsibilities include diagramming and monitoring material flow, monitoring and reporting on computer hardware and software performance, and working with human resources and company management to create technology, staffing, and training strategies.

KNOWLEDGE AND SKILLS:

	FIRST RESUME		MODIFIED RESUME			
EDUCATION						
Bachelor's degree in wood science, engineering, or related field	+	OK	-	+	OK	-
EXPERIENCE						
Manage lumber and veneer production	+	OK	-	+	OK	-
Operation of lumber and veneer production machinery	+	OK	-	+	OK	-
Use of computer software used in lumber and veneer production	+	OK	-	+	OK	-
SKILLS						
Needs assessment development	+	OK	-	+	OK	-
Computer diagramming software proficient	+	OK	-	+	OK	-
Planning	+	OK	-	+	OK	-
OTHER QUALIFICATIONS						
Project management	+	OK	-	+	OK	-
Work with team	+	OK	-	+	OK	-
TOTAL						