

**DANE GOBLE**  
Agronomist

**EXPERIENCE  
SUMMARY**

**9 Years of Experience Encompassing the Following Areas**

- Agricultural nutrient management
- Environmental data management and analysis
- Soil surface water, and ground water sampling for environmental projects
- Best Management Practice (BMP) design and implementation
- Federal, state, and local environmental regulation compliance
- Sampling equipment maintenance, installation, and field inspection
- Ground water, soil sampling, and environmental sampling oversight for Federal and State regulatory compliance
- Field support for geomorphic mapping and characterization
- Vegetation inventory and sampling
- Wetland evaluation and restoration
- Federal and State environmental permitting oversight
- Storm Water Pollution Prevention Plan (SWPPP) preparation
- Erosion modelling at watershed and site specific scales
- Compost operations design, oversight, and regulatory compliance
- NPDES permitting and compliance
- Water rights/water resource evaluation, accounting, and planning
- Evaluation of nutrient utilization/transport related to cannabis cultivation

**SELECTED  
PROJECT  
EXPERIENCE**

**Glorieta Geoscience, Inc., Santa Fe, NM – Agronomist**  
Aug. 2013 - Present

Responsibilities include but not limited to:

- Maintain highest quality compost quality certification from US Composting Council (USCC) and OMRI (Organic Material Review Institute) for 30,000 ton/yr facility (Ponderosa Dairy, Amargosa Valley, NV)
- Litigation support under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), the Resource and Recovery Act (RCRA), and various other federal and state statutory and common law theories.
- Preparation of groundwater discharge permits and surface water discharge permits for agricultural, industrial, and municipal operations.
- Preparation of Comprehensive Nutrient Management Plans (CNMPs) and nutrient management plans (NMPs) per NRCS and EPA guidelines.
- Analysis of water quality, soil chemistry, crop uptake, and other related agricultural, biological, chemical data as it applies to environmental compliance issues for the dairy industry and related industries.
- Compliance oversight for federal, state, and local environmental permits
- Perform compliance inspections per EPA guidelines at CAFOs, golf courses, and other facilities that have the potential to pollute groundwater or surface water,
- Research related to agronomy, nutrient management and other environmental issues affecting the dairy industry and related industries.
- Database development and maintenance, data analysis.
- Erosion modelling at watershed and site specific scales.
- Fieldwork includes groundwater and soil sampling, annual site inspections and quarterly, semi-annual monitoring.
- Oversight and organization of annual agronomic and environmental soil, manure, and compost sampling at over twenty project sites.
- Preparation of water rights applications, water rights inventory, and evaluation of water utilization
- Evaluate nutrient utilization/nutrient transport related to cannabis production



Glorieta Geoscience, Inc. P.O. Box 5727 Santa Fe, NM 87502 (505) 983-5446  
www.glorietageo.com goble@glorietageo.com

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**ENCAP, Inc.,** Sycamore, IL – Ecological Restoration Project Manager

May 2013-July 2013

- Communicate effectively with staff, clients, and government regulators in all matters regarding the ecological goals of the project and the most efficient ways to meet performance standards.
- Train personnel in proper plant identification, herbicide application, and safety precautions during work day start up and afternoon tailgate meetings.
- Collaborate with upper management on future training programs, needed certifications, safety policies and scheduling of work.
- Oversight of ecological restoration projects

**Southern Illinois University,** Carbondale, IL – Researcher

Jan. 2013 – May 2013

- Assist in experimental design and layout of experimental riparian buffer strips.
- Installation and maintenance of experimental riparian buffer strips in agricultural areas.
- Maintenance, monitoring, and repair of laboratory and field equipment

**Southern Illinois University,** Carbondale, IL – Teaching Assistant

Sept. 2010 – Dec. 2012

- Instruct students in identification of over 140 native and exotic trees, shrubs and woody vines

**Southern Illinois University,** Carbondale, IL – Research Assistant

Sept. 2010 – Dec. 2012

- Investigate growth properties of a critically endangered riparian plant species [Giant Cane (*Arundinaria gigantea*)] to aid in restoration efforts
- Develop a multiple regression model to estimate the number of viable propagules a giant cane stand will yield based on the plants growth characteristics
- Determine biomass allocation/root production below giant cane stands to a depth of 150 cm
- Measure physical and chemical soil properties to determine if they were correlated with giant cane growth characteristics

**USDA Forest Service (Mark Twain National Forest),** Winona, MO – Botany Technician

May 2010 – Sept. 2010

- Conduct field surveys for non-native invasive plant species
- Use contour maps and Trimble GPS to plot locations of plants within Wilderness areas
- Analyze data and create maps using Pathfinder and ArcGIS

**Illinois Dept. of Natural Resources,** Newton, IL – Intern

May 2009 – Aug 2009

- Vegetation inventory and sampling
- Control and removal of non-native invasive plants
- Habitat creation, maintenance, and restoration
- Conduct surveys for various wildlife species
- Collect and analyze field data using Excel and ArcMap

**Southern Illinois University Plant Biology Greenhouse,** Carbondale, IL – Greenhouse Technician

Aug. 2007 – Dec. 2009



- Supervision of greenhouse operation, supplemental lighting, and heating and cooling requirements
- Maintain ongoing university research within greenhouse
- Maintain all cultural aspects of plant growth and development; this includes but is not limited to:
  - Sexual and asexual plant propagation
  - Basic fertilizer and water regimes
  - Integrated pest management
  - Cultivation of native and exotic plant species

## EDUCATION

**M.S., Forestry (Soils and Hydrology)**, Southern Illinois University, 2010-2013

**B.S., Forestry (Forest Resource Management)**, Southern Illinois University, 2007-2009

## CERTIFICATIONS

**Certified Nutrient Management Specialist**  
**Certified Compost Facility Operator**

## SELECTED PRESENTATIONS

**Goble, D**, Schoonover, J, Williard, K, Zaczek, J. 2013. Allometry, Morphometry, and Soil Characterization of Giant Cane [*Arundinaria gigantea* (Walt.) Muhl.] Stands in Southern Illinois. Poster Presentation, American Water Resources Association 2013 Spring Specialty Conference, Agriculture Hydrology and Water Quality II, St. Louis, MO.

**Goble, D**, Schoonover, J, Williard, K, Zaczek, J. 2012. Assessing Biomass Production in Giant Cane with Respect to Soil Properties. Oral Presentation. American Water Resources Association 2012 Summer Specialty Conference, Riparian Ecosystems IV: Advancing Science, Economics and Policy, Denver, CO.

**Goble, D**, Schoonover, J, Williard, K, Zaczek, J. 2011. An Assessment of Biomass Production in Giant Cane [*Arundinaria gigantea* (Walt.) Muhl.] and Its Effects on Chemical and Physical Soil Properties. Oral Presentation. American Water Resources Association Annual Water Resources Conference 2011, Albuquerque, NM.

Bloemer, W, **Goble, D**, Alessi, M, Edgin, B. 2009. Vegetation of Ankenbrandt Forest, Wabash County, Illinois. Poster Presentation. Natural Areas Association National Conference 2009, Vancouver, WA.

