

Riley Demond

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CAREER FOCUS

Detailed, open-minded Environmental Science graduate seeking a full-time position in environmental compliance to utilize ecological knowledge and environmental assessment experience to support sustainable development and natural resource conservation.

EDUCATION

Oakland University, Rochester, MI

Graduation Date: April 2026

Bachelor of Science, Environmental Science with a Specialization in Sustainability and Resource Management

Relevant course work: Stream Ecology, Environmental Law and Policies, GIS Analysis, Engineering Graphics and CAD, Water Resources, and Energy and the Environment

PROFESSIONAL EXPERIENCE

Oakland University Student Congress, Rochester, MI

June 2025 -April 2026

Director of Sustainability | 12-14 hours/week

- Develop and implement campus sustainability initiatives (e.g., rain barrels, green spaces) and lead events such as workshops, trail walks, and conservation opportunities to engage students in environmental action
- Collaborate with university administration and student organizations to expand OUSC initiatives and integrate environmental stewardship into campus culture; draft and support sustainability-related resolutions and legislation
- Delegate and oversee tasks for Sustainability Committee members to coordinate and advance sustainability initiatives
- Manage budgets and allocate funding to support ongoing and new projects aligned with Oakland University's environmental goals

Clinton River Watershed Council, Rochester Hills, MI

April – August 2025

Environmental Science Intern | 20-28 hours/week

- Collected and analyzed watershed and aquatic ecology data through water quality monitoring, habitat surveys, YSI and flow meter use, GIS mapping, and site assessments; evaluated nutrient dynamics (nitrogen and phosphorus) to identify limiting factors across the watershed
- Assisted with green stormwater infrastructure projects, including rain barrel and rain garden installations, and led community demonstrations for residents
- Led environmental education and stewardship programming, including a K–12 streamside monitoring program engaging over 1,500 students in four weeks
- Identified 8,000+ macroinvertebrates to the family level and recorded biological monitoring data in the Izaak Walton League of America and MICORPS databases; trained in Procedure 51 Qualitative Biological and Habitat Survey through EGLE, including wetland plant identification, restoration monitoring, and field decontamination protocols

Oakland University, Pontiac, MI

September 2024 – April 2025

Undergraduate Research Assistant | 10 hours/week

- Conducted field data collection on property conditions in the City of Pontiac by observing and documenting site conditions through structured surveys, utilizing Regrid and Adobe tools for mapping and documentation

- Assisted Dr. Lucarelli with research support, including compiling City of Pontiac meeting materials, minutes, and transcripts, and performing qualitative coding of records

Oakland County Government: Health Division, Pontiac, MI

May – August 2024

Sanitarian Intern | 40 hours/week

- Conducted routine on-site inspections of lodging facilities, food service and processing establishments, public swimming pools, and beaches to assess environmental health and regulatory compliance; provided one-on-one assistance to the public
- Collected samples from drinking water systems, sewage disposal systems, and recreational lakes for laboratory analysis
- Shadowed senior inspectors conducting groundwater and surface water monitoring, mosquito surveillance, and environmental health inspections
- Utilized countywide software systems and MiEnviro Portal Beachguard to document inspections and complete regulatory assignments

PROJECTS & VOLUNTEERING

Independent Research Project: Organic Decomposition in Upper Peninsula Streams

9/2025-4/2026

- Collected 16 cellulose substrate samples (four types, four replicates) from 13 streams after six-week incubation under Professor Scott Tiegs, and measured tensile strength with a tensiometer to calculate organic matter decomposition rates
- Analyzed stream temperature data using HOBOware to evaluate correlations between water temperature and decomposition rates

Energy Systems Lab

9-12/2025

- Evaluated renewable fuel efficiency, produced biodiesel from recycled vegetable oil, and designed a compact solar-powered USB charger to demonstrate small-scale renewable energy applications

Nine Element Watershed Plan Using GIS

11/2024

- Developed a Nine-Element Watershed Plan to improve watershed quality using datasets from the Michigan Open Data Portal, including erosion risk and road–stream crossing data

Soil Analysis

3/2024

- Collected soil samples from three locations in southeast Michigan and conducted laboratory analyses of nitrate, pH, phosphorus, humus, and other soil components to assess soil conditions

SKILLS

Environmental Sampling & Analysis: Surface water, freshwater, and soil sampling; chemical, physical, and biological testing

GIS & Data Management: ArcGIS Pro, Survey123, mapping, geoprocessing, spatial analysis, environmental data visualization

Project Leadership & Technical Expertise: Coordinating initiatives, delegating tasks, budget management, stakeholder collaboration; sustainable planning, resource management, wetland delineation, habitat assessments, renewable energy projects; strong written and verbal communication

Environmental Education & Outreach: Leading volunteers and students in sustainability, pollution prevention, and habitat monitoring

ACHIEVEMENTS & ACTIVITIES

OU Talented Scholar Award	2022-2025
Spirit of Discovery Award from Oakland University Honors College	January 2024
Barry M. Klein Scholarship	September 2022- April 2023
Board Member of the Ecology Club and the Water Resources Club	July 2025- Current
Volunteer for Clinton River Watershed Council, Monarch Watch, & Bees in the D	February 2024- Current
Member of the Society of Freshwater Science & Michigan Association of Environmental Professionals	2026