

Environmental Careers Panel

October 30, 2024

Sponsored by





Patty Burke & Joanna Pawlina



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Joanna.Pawlina@dem.ri.gov

Environmental Scientist II

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Rhode Island Department of Environmental Management (RIDEM)



About Me - Patty Burke

- **Education**

- Graduated from UMass Boston with a B.S. in Environmental Science and a minor in Biology
- Currently pursuing a Master of Public Policy from UMass Dartmouth

- **Previous Experience**

- Environmental Education at Save the Bay in Providence, RI
- Industrial Pretreatment Program at Upper Blackstone Clean Water in Millbury, MA

- **Current Role**

- Environmental Scientist at RIDEM
- Project Manager within the following programs:
 - Department of Defense/Formerly Used Defense Sites
 - Superfund/NPL
 - State Site Remediation/Brownfields
 - Expedited Policy for Remediation of Environmental Simple Sites (EXPRESS)
- Additional roles:
 - Oversee the Student Environmental Engineering Internship Program

About Me - Joanna Pawlina

- **Education**

- Graduated from St. John's University in NYC with a B.S. in Toxicology and a focus on Environmental Toxicology

- **Previous Experience**

- NYCDEP for the Office of Energy and Resource Recovery, as a College Aide
- KAM Consulting in NYC, an environmental consulting company, as a Lab Assistant

- **Current Role**

- Board Member for RISEP
- Environmental Scientist II at RIDEM
 - Involved within the following programs:
 - Program Manager for the PCB Remediation Program of RI state bridges
 - Project Manager for the State Site Remediation Program
 - Project Manager for Targeted Brownfields Assessment (TBA) Program

Offices within RIDEM

Natural Resources Bureau

- Agriculture & Forest Environment
- Coastal Resources
- Law Enforcement
- Fish & Wildlife
- Parks & Recreation
- Planning & Development
- Marine Resources
- Narragansett Bay Estuarine Research Reserve

Environmental Protection Bureau

- Air Resources
- Compliance & Inspection
- Customer & Technical Assistance
- Emergency Response
- Land Revitalization & Sustainable Materials Management
- Water Resources

Office of Land Revitalization & Sustainable Materials Management

- Waste Facilities Management Program
- Underground Storage Tank Management Program
- Site Remediation Program
- Superfund/Department of Defense Program



Dawn Cardace, PhD

Cardace@uri.edu

Professor

Department of Geosciences, University of Rhode Island



About Me

- **Education**

- Swarthmore College, B.A. in French Literature, teaching cert., minor in Women's Studies
- Iowa State University, post bacc year of science foundation when planning for graduate school
- Washington University in St. Louis, Master's and Ph.D. in Earth and Planetary Sciences
- NASA Ames Research Center, Moffett Field, CA *Exobiology Branch Postdoctoral Fellow*

- **Previous Experience**

- Consultant with the Department of Environment and Climate Change, New South Wales, AUS
- National Park Service Park Ranger (seasonal), Wind Cave and Carlsbad Caverns National Parks
- Language teacher, Torok Ignac Gimnazium, Godollo, Hungary
- Environmental Service volunteer at Golden Gate National Recreation Area, greater San Francisco, CA

- **Current Roles**

- Professor of Geosciences, URI
- Principal Investigator for NASA EPSCoR grant tracking methane generated from ultramafic rocks:
 - Scientific monitoring well work in coastal RI and northern CA field locales
 - Thin section microscopy, SEM, EPMA, Raman and FTIR spectroscopy
 - Geochemical reaction path modeling (Geochemist's Workbench) and bioenergetics modeling
- Additional service:
 - Diversity Committee rep
 - Coordinate the URI BES Environmental and Earth Sciences graduate specialization
 - Serve as MESM Earth and Hydrological Science Track mentor
 - NASA Rhode Island Space Grant affiliate rep for URI







Rick Carlone, P.E.

Richard.Carlone@gza.com

Associate Principal

GZA GeoEnvironmental, Inc.



Michelle Carpenter

mcarpenter@tpoint-e.com

Vice President of Development

TurningPoint Energy



About Me

- **Education**

- Graduated from URI with a B.S. in Environmental & Natural Resource Economics a minor in Environmental Science

- **Previous Experience**

- Electrical Estimator; John A. Penney Co. Inc.
- Commercial Sales Analyst, Bids and Proposals; Real Goods Solar
- Northeast Head of Origination; NextEra Energy Resources
- C.O.O. Green Development, LLC

- **Current Role**

- Vice President of Development; TurningPoint Energy
- Lead a team of 7 developers across 4 states who directly manage 6-10 projects at varying stages of development.



Project Development Stages & Roles



- GIS Screening
- Landowner Outreach
- Real Estate Negotiations

- Wetland and other Environmental Site Screening
- Real Estate - Survey and Title Work
- Electrical Utility Interconnection
- Community & Political Engagement

- Site/Civil Engineering
- Site Layout Design
- Power Modeling
- Local & State Permitting
- Landscape Design
- Geotechnical Engineering

- Financial Modeling
- Power Offtake
- Regulatory Compliance
- Tax Equity and Project Debt Sourcing
- Lots of Lawyers!

- Construction
- Electrical Design
- Equipment Procurement
- Commissioning
- Long Term Asset Management

Project Development: Careers

Each project relies on a breadth of experts including engineers, attorneys, surveyors and environmental specialists to advise in their areas of expertise.

Site Acquisition	Title	Interconnection	Feasibility	Permitting
<ul style="list-style-type: none">● GIS Analyst● Real Estate Professional● Landmen● Real Estate Counsel	<ul style="list-style-type: none">● Title Company● Real Estate Counsel	<ul style="list-style-type: none">● Electrical Engineer● Local Electric Utility● Regulatory Counsel	<ul style="list-style-type: none">● Land Surveyor● Wetland Biologist● Environmental Scientist● Archaeologist	<ul style="list-style-type: none">● Civil Engineer● Land Use Counsel● Local Consultants● Lobbyists

Brian Cote, PG, LSP

brian.cote@aptim.com

Senior Program Manager

APTIM





APTIM Environmental and Infrastructure, LLC.

Company Overview, Discussion of Environmental & Sustainability Services

URI Environmental Career Panel

October 2024

APTIM CORE SERVICES



ENVIRONMENTAL SERVICES

- ▶ Phase I studies, Due Diligence, Asbestos, and Lead Surveys
- ▶ Site Assessments to Delineate Plumes
- ▶ Groundwater Modeling
- ▶ Technology Evaluation and Development
- ▶ Risk Assessments (Human Health & Ecological)
- ▶ Environmental Land Use Controls
- ▶ Vapor Intrusion Assessments/Modeling
- ▶ SSDS and Vapor Mitigation Systems
- ▶ Remedial Action Selection and Planning
- ▶ In situ and ex situ Remediation
- ▶ Nationally Recognized Biotechnology Technology Lab
- ▶ Treatment of Emerging Contaminants (PFAS, 1,4-D, EDB, NDMA, MTBE)
- ▶ Decontamination and Decommissioning
- ▶ GIS and Database Management
- ▶ Brownfield Real Estate Restoration



ENVIRONMENTAL COMPLIANCE PROGRAMS

EH&S Compliance Support Services

- ▶ Stormwater Pollution Prevention
- ▶ Air Quality
- ▶ Health & Safety Services
- ▶ Multi-Media Auditing
- ▶ Onsite Consulting Support (Seconded)
- ▶ Regulatory Permitting and Reporting
- ▶ Training Development and Presentation
- ▶ Waste Management
- ▶ Water Management

Service a Variety of Industrial Sectors

- ▶ Manufacturing
- ▶ Oil & Gas
- ▶ Transportation (Air and Ground)
- ▶ Power Generation
- ▶ Retail
- ▶ Telecommunications



ENERGY AND SUSTAINABILITY SOLUTIONS OVERVIEW

Our whole systems approach brings together best practices and innovation in the areas of energy, water, waste, carbon, and supply chain. Our team of subject matter experts works together to ensure a streamlined and efficient process when developing sustainability and energy solutions.

Services

- Sustainability Planning and Management
- Carbon Management and Greenhouse Gas Accounting
- Certification and ESG Rating System Support
- Data Management and Benchmarking
- Circular Economy Solutions
- Climate Mitigation, Adaptation, and Resiliency
- Energy, Water and Waste Management
- APTIM Organization



Julie Safford

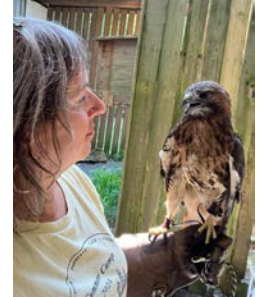
jsafford@normanbirdsantuary.org

Lead Teacher Naturalist & ANT Coordinator



“Our mission is to spark people’s curiosity to explore, steward, and find peace and joy in nature.”







Norman Bird Sanctuary

In 2023 NBS

- ★ Removed over 20,000 square feet of invasive privet.
- ★ Harvested over 1,000 pounds of produce and donated to the Martin Luther King, Jr. Community Center food pantry.
- ★ Welcomed over 1,200 students on field trips and over 400 campers during our Summer Nature Camp.
- ★ Raised over \$34,000 in scholarships funds.
- ★ Provided over 160 Educational and Cultural programs including lectures, guided hikes, concert series, plein air days, and other community events.
- ★ Sponsored conservation and research internships from the MET school, TerraCorps, Salve Regina University, and the University of RI.
- ★ Partnered with over 40 local and regional organizations including RINHS, DEM, URI Smile Program, URI Master Gardener Program, Bike Newport, Save the Bay, Fall River Deaconess, Aquidneck Community Table, Newport Art Museum, Tomaquag Museum, Fab Newport, and Cornell Laboratory of Ornithology, among many others.

Audra Lavoie, MPA

audrarilyan@uri.edu

Career Education Specialist

University of Rhode Island



URI Career Services

- Center for Career and Experiential Education (CCEE), Located in Roosevelt Hall
- Advising on - resumes, cover letters, interviewing, connecting your major to career options, internships, +
- Instruction - teach career readiness and internship courses
- [Events](#) - open to all, regardless of major, also open to alumni. Fairs, workshops, networking, and more.
Drop in hours, Wednesdays 11am-1pm, CBLS room 130 (verify on Starfish, or look for the sign)
Application Session, 12/4/24 4pm-5pm, Woodward 216
CELS Career Fair on 2/4/25 11am-2pm, Memorial Union
- [Handshake](#) - job and internship platform, including on campus jobs
- Dedicated [Career Education Specialist](#) for your major



Rhode Island Society of Environmental Professionals (RISEP)

<https://www.risep.org/>

FREE Student membership

\$1000 educational scholarships awarded annually
(undergraduate, graduate and high school students)



Possible roundtable questions

1. What types of projects are typical for a work week?
2. What do you enjoy most about your work?
3. What's the most challenging, and how do you cope with that?
4. How have you advanced in within your organization?
5. What are your plans for the next step in your career?
6. How important are professional associations/affiliations to this role?
7. What skills are most important to performing your job well?
8. How do you keep up to date on the latest skills needed for this type of work?
9. Have you seen a lot of change in your industry in the past 5 years? How has your role changed because of this?
10. What changes do you anticipate in your industry in the next 10 years?
11. If you could go back in time, what advice would you give to the younger version of yourself with regards to the position that you hold today?
12. Does this job typically require that you work 40 hours every week? Are there certain times of the year when you have to work longer hours during the week?
13. Are you able to maintain a good work/life balance with your work schedule?
14. What are some of the activities you enjoy to de-stress?
15. Do you have an opportunity to work with other departments on projects? If so, what skills are important for cross-functional projects?
16. Could you share any advice about working in general that's important to remember?