

Leila MacKenzie Boyd

Knoxville, Tennessee | (865) 617-9368 | boydm@ornl.gov

ACADEMIC PROFILE

Master's student in Geography at the University of Tennessee, Knoxville, with research interests at the intersection of energy geography, infrastructure, spatial analysis, and public policy. Current research examines small modular reactor deployment in the Tennessee Valley and how energy infrastructure decisions interact with coal-transition landscapes and regional development. Professional experience spans federal scientific programs, municipal energy-efficiency deployment, sustainability planning, technical communications, and stakeholder engagement.

EDUCATION

University of Tennessee, Knoxville — Knoxville, TN

Expected Fall 2027

M.S., Geography

- **Thesis:** Policy Priorities and Spatial Screening for Small Modular Reactor Deployment in TVA's Coal Transition Landscape.
- **Graduate Certificate in Energy Policy**, Howard H. Baker Jr. School of Public Policy and Public Affairs — in progress.

Emory & Henry University — Emory, VA

December 2019

B.S., Environmental Science

RESEARCH INTERESTS

Energy geography • Energy infrastructure and siting • Small modular reactors and nuclear energy • Coal-transition landscapes • Regional development • GIS and spatial analysis • Energy and public policy

THESIS RESEARCH

Policy Priorities and Spatial Screening for Small Modular Reactor Deployment in TVA's Coal Transition Landscape

M.S. Thesis

- Examines the geography of potential small modular reactor deployment within the Tennessee Valley, with attention to existing energy infrastructure and coal-transition landscapes.
- Uses GIS and spatial analysis to evaluate siting considerations and connect geographic evidence with energy-policy questions.
- Focuses on how infrastructure investment and deployment decisions may shape places, communities, and regional development.

PROFESSIONAL EXPERIENCE

Oak Ridge National Laboratory (ORNL) — Oak Ridge, TN

March 2023 – Present

Project Specialist, Oak Ridge Leadership Computing Facility / NCCS

- Manage the OLCF annual training portfolio, coordinating multi-event programming that engages 1,500+ participants through registration, communications, account provisioning, instructor support, attendance reconciliation, and reporting.
- Coordinate major scientific program reviews, workshops, and principal-investigator meetings, including agendas, materials, participant logistics, milestone tracking, and follow-up reporting.
- Lead planning and delivery of the annual OLCF User Meeting (2023–2026), coordinating presenters, stakeholders, subcommittees, registration, logistics, and post-event reporting.
- Support federal partnerships and sponsor-facing work, including prior service as NCCS Division Proposal Coordinator for Strategic Partnership Projects and CRADAs.
- Produce technical and public-facing communications for audiences ranging from federal delegations and industry leaders to students and the broader user community; contribute to OLCF operational reporting and leadership communications.
- Lead the OLCF Tour Program, coordinating protocol-level engagements and training hosts on facility and scientific messaging.
- Develop AI-assisted and Microsoft Power Platform workflows to improve scheduling, invitations, engagement reporting, and other coordination processes.

City of Fredericksburg, Department of Public Works — Fredericksburg, VA

November 2021 – March 2023

Environmental Sustainability Coordinator

- Developed the City's Environmental Sustainability Program in support of City Council's 2035 100% Renewable Energy Resolution.

- Co-led an energy savings performance contract and coordinated energy-efficiency and facility-modernization projects across municipal buildings.
- Completed a government-operations greenhouse gas inventory and developed employee waste and energy management programming across City facilities.
- Secured \$10,000 in federal support for a fleet assessment through the 2022 DOE Drive Clean Rural USA Project.
- Coordinated a retired-landfill-to-solar site assessment with state, local, and utility partners and presented program updates and recommendations to City Council.

Rappahannock Regional Landfill — Stafford, VA

February 2021 – November 2021

Environmental Technician

- Conducted stormwater compliance inspections, maintained environmental management system records, and supported NPDES compliance.
- Developed and implemented a corrective action plan for wetland-area pollution discharge and compiled documentation that contributed to \$25,000 in reductions from state fines.

CAC AmeriCorps / City of Oak Ridge — Oak Ridge, TN

August 2020 – February 2021

Stormwater Technician, AmeriCorps Service Member

- Coordinated the Oak Ridge Healthy Waters Program and conducted land-disturbance permit inspections and dry-weather screenings under NPDES regulations.

SELECTED LEADERSHIP & PROFESSIONAL SERVICE

- Communications Liaison, Students@SC, SC26 conference committee.
- OLCF Tour Program lead and Tour Host Guide coordinator, supporting scientific outreach and protocol-level visits.
- Workforce-development support for hackathons, student visits, university engagement, and scientific training programs.

SELECTED ENERGY & SUSTAINABILITY PROJECT EXPERIENCE

- Municipal energy savings performance contracting and facility modernization.
- Government operations greenhouse gas inventory and sustainability program development.
- DOE-supported municipal fleet assessment through Drive Clean Rural USA.
- Retired-landfill-to-solar site assessment involving state, local, and utility partners.
- Federal scientific program coordination and stakeholder engagement within a DOE national laboratory environment.

TECHNICAL & PROFESSIONAL SKILLS

GIS & Spatial Analysis: GIS-based spatial analysis and mapping

Program & Project Management: Event and training program management, stakeholder coordination, milestone tracking, performance reporting, federal partnership support

Technology & Workflow Tools: Microsoft 365, Power Platform, Power Automate, Power BI, AI-assisted workflow automation

Communications: Technical and non-technical writing, web content, newsletters, reports, presentations, scientific outreach, executive and public-facing communications