

Dr. Ryan McManamay is research scientist with the Aquatic Ecology group at Oak Ridge National Lab (ORNL). The scope of his research has encompassed multiple aspects of ecohydrology, urban ecology, hydrologic modeling, community and ecosystem ecology, restoration ecology, and conservation planning. His main research thrust has been evaluating ecological responses to altered hydrology in streams, and how to incorporate these findings into broader frameworks to influence water policies. Working within the Urban Dynamics Institute, Ryan has developed tools to optimize sustainable urban growth scenarios by minimizing impacts to aquatic ecosystems. Ryan has also researched mitigation strategies for energy development on aquatic resources and consistently developed and disseminated large spatial datasets to guide aquatic conservation and support research. Prior to becoming a staff member in 2013, Ryan was a post-doc at ORNL for 2 years. He received his Ph.D. in Fish and Wildlife Conservation in 2011 and his M.S. in Stream Ecology in 2007, both at Virginia Tech.