**QUALIFICATIONS OF PROJECT MANAGER, DR. XUE FENG**

**Appointments**

2017 – present Assistant Professor, University of Minnesota, Twin Cities

 Department of Civil, Environmental, and Geo-Engineering

 Faculty at Saint Anthony Falls Laboratory

 Graduate faculty in Water Resources Sciences program

**Education and Professional Preparation**

University of California, Berkeley Postdoc Ecohydrology 2015 – 2017

Duke University Ph.D. Civil & Environmental Engineering 2015

Stanford University B.S. / Minor Mechanical Engineering / Biology 2010

**Prior Related Experiences**

Feng joined the faculty of Civil, Environmental, and Geo-Engineering at the University of Minnesota in 2017. Her research focuses on the hydrological feedback between soils, plants, and the atmosphere through a mix of field-based and computational methods. She past work with NOAA has investigated the climatic, soil-related, and physiological drivers of plant water stress and mortality during the historic California drought of 2012–2015. She currently studies the role of water table variations on plant carbon uptake and soil carbon emissions from peatland ecosystems near Grand Rapids, MN, in collaboration with the DOE and USDA Forest Service.

**PROJECT PARTNER**

**Dr. Walid Sadok** is an assistant professor and plant eco-physiologist in the Department of Agronomy and Plant Genetics at the University of Minnesota. He has expertise in plant water relations, crop productivity and sustainability with a research approach combining empirical methods and modeling. He currently leads a multi-disciplinary, translational research program aiming at identifying new functional traits and novel, physiologically-informed plant sensors to enable enhancing crop tolerance to abiotic stresses and resource-use efficiency, particularly water.

**ORGANIZATION DESCRIPTION**

The **Department of Civil, Environmental, and Geo-Engineering** is part of the College of Science and Engineering at the University of Minnesota. Its mission is “…to transform the world by addressing critical challenges in designing and protecting our infrastructure, environment, water and earth resources” through education, research, and outreach. Its 30 full time faculty members are engaged in a wide range of socially relevant research topics, including on the protection and remediation of soil and water resources.

The **Saint Anthony Falls Laboratory** (SAFL) is a leading research and education facility of the University of Minnesota, located on Hennepin Island on the Mississippi River. It partners with local, state, and federal agencies, private firms and businesses, and other educational institutions “to benefit society by developing physics-based, cost-effective, and sustainable engineering solutions to major environmental, water, ecosystem, health, and energy-related problems” through advances in fundamental knowledge. Faculties at SAFL integrate lab- and field-based experiments with advanced computational tools to obtain innovative, science-based solutions to real-world problems in fluid-flow and water resources.