Dr. Ryan C Locicero

Engineer and Scientist

Certificates

Professional Engineer Florida #80431

Professional Engineer Oregon #94260PE

Personal Info

Address

1155 NW Everett Street, Apt. 310
Portland, OR 97209

Phone

(727) 242-3917

E-mail

ryanlocicero@gmail.com

Website

http://www.ryanlocicero.com

LinkedIn

https://www.linkedin.com/in/ryanlocicero/

Skills / Application Areas

Systems Thinking and Design

Civil and Environmental Consulting

Integrated Watershed Management

Strategic Partnerships and Planning

Research Foundations and Innovation

Water Resource Engineer

Hydraulics and Hydrology

Stormwater Design and Control

AI and Machine Learning

Wireless Sensors and Networking

Green Infrastructure Design

Nutrient Management

Stream Restoration Design

Permitting and Compliance

Grant and Proposal Writing

Smart Cities and Communities

Urban and Rural Planning

Community Engagement

Environmental Science and Policy

Sharing Economy & Crowdsourcing

STEM Education and Citizen Science

Built and Natural Environment

Adaptive Infrastructure Design

Performance Management Systems

Professional Engineer and PhD scientist in civil and environmental engineering with 13+ years of experience in project management, stormwater and wastewater design, integrated watershed management, and strategic planning. Looking to leverage science policy experience and access to the nation's top researchers and engineers to enable advances in water and wastewater treatment and accelerate the next generation of water resources planning and watershed management.

Experience

2018-10 - present

Practice Leader - Strategy, Performance, & Innovation

Clean Water Services, Business Operations, Business Strategy & Performance

- Working across the District to execute both process and results criteria in alignment with the Malcolm Baldrige Performance Excellence Framework.
- Leading the creation and implementation of the Districts' Strategic Approach for developing the 2020-2025 Strategic Plan.
- Responsible for the piloting, procurement, and implementation of a performance management software for tracking the Districts' Key Strategic Outcomes.
- Supporting Key Outcome Indicators for Strategy Development and Implementation, Financial Performance, Operating Performance, Leadership & Employee Development, Relationships with External Constituencies, and Innovation.

2016-09 - 2018-09

AAAS Science and Technology Policy Fellow

National Science Foundation, Computer and Information Science and Engineering

- Supported the implementation of $190 million in NSF programs that accelerate the creation of scientific and engineering foundations to advance national priority areas.
- Worked across the agency to establish a $5 million investment supporting the next generation of sensor systems and wireless networks.
- Provided subject-matter expertise for advancing stormwater research, including more than $3.7 million in support of 6 projects and 32 researchers across the nation.
- Led the organization of 2 principal investigator meetings and supported 3 national visioning workshops, bringing together more than 350 researchers from all 50 states.

2015-11 - 2016-08

Senior Process Technologist

Clean Water Services, Business Operations

- Organized a top-down study, working with 13 division directors and leadership team to develop the Districts' next integrated watershed management plan.
- Executed 3 integrated planning workshops with over 30 staff from each division to intentionally re-align roles and responsibilities for sub-basin planning.

2006-05 - 2009-01

Design Engineer

Stantec, Public Infrastructure Group

- Responsible for delivering civil-site design, permitting, and construction documents for more than 20 complex redevelopment projects.
- Designed and permitted with SWMM, WASP, HEC-HMS, HEC-RAS, ICPR, ModFlow, EFDC, SUTRA, WaterCAD, StormCAD, BASINS, PONDS, AutoCAD and ARCGIS.

Education

2010-08 - 2015-05

University of South Florida, Ph.D., Environmental Engineering

- Developed an educational model to mainstream green infrastructure within urban environments, mentoring 25 public school teachers and provided educational outreach to more than 600 K-12 students.
- Designed and installed 10 green infrastructure projects, capturing between 30% and 65% of stormwater runoff from entering the Tampa Bay Estuary annually.
- Increased nitrogen removal efficiency by 35% and provided evidence for saving the utility between $1.5 million and $6.5 million over 20-year design life.

2009-01 - 2009-12

University of Florida, M.Eng., Environmental Engineering

Graduate education provided a comprehensive understanding of environmental engineering principles and practices, including stormwater and wastewater design.

2000-08 - 2006-05

University of South Florida, B.S., Civil Engineering

Undergraduate education and research experience focused on engineering foundations and design with an emphasis on structural engineering.