

# Environmental and Water Resources Engineering Seminar Series Presents:



Thursday, September 19<sup>th</sup> 2024, 3:30-4:30pm, ECJ 1.214

## Industry Perspectives: Water Resources Planning and Management

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### Abstract

Emily and Morgan, both former graduate students from Texas universities, are coming from Stantec Consulting Services to present on Water Resources Planning and Management, a lesser known though important discipline of Water Resources Engineering. As climate change shifts the availability of water in the western United States, planning usage of water is crucial to the sustainability of the region. Morgan will present on Stantec's work with the Brazos River Authority to develop their Integrated Water Resources Plan, a tool used in the Brazos River Watershed to properly manage and plan for future uses. Emily will present on Stantec's work with the Friant Water Authority, helping the Friant Division to appropriately plan for modifications to the Friant Kern Canal, a major canal of the Central Valley.



### Background

Emily is a water resources planner within Stantec's Water team, she currently works with the U.S West team to help address water resources planning problems. Previous industry experiences include flood plain modeling and mapping, GIS, and technical report writing. Other experiences include community-based research, in-field water quality sampling, academic writing, and statistical modeling. Emily is a licensed Engineer-in-Training.

Morgan is a professional engineer with Stantec Consulting Services, Inc. where her work focuses on water resources planning and hydrologic and hydraulic modeling. She has research and applied experience in urban flood hazard mitigation, floodplain modeling and mapping, climate change risk, and flood frequency analyses as well as experience working for federal, state, and local clients on flood infrastructure, stream restoration and flood mitigation planning projects. Morgan is a licensed Professional Engineer and a Certified Floodplain Manager.

