

CAPABILITY STATEMENT

Cynthia Tan



**Graduate Engineer
Water & Environment**

CONTACT DETAILS

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QUALIFICATIONS

- MPhil Civil and Environmental Engineering
- MS Civil Engineering
- BS Chemical Engineering

Cynthia is a Graduate Engineer for Pinion Advisory within the Water & Environment team. She achieved her bachelor's degree in chemical engineering and master's degree in civil engineering at Iowa State University. Cynthia received the ASI Scholarship from the University of Adelaide in 2020 to conduct research into operational shutdown behaviours in water distribution networks.

Cynthia has multidisciplinary skills include hydraulic modelling of water distribution networks, water and wastewater treatment design, and water quality assessment. Being detail-oriented, she enjoys spending time solving engineering problems and providing constructive supports for her team and clients.

Areas of expertise

- Water distribution networks optimization
- Water and wastewater treatment design
- Water quality assessment
- Hydraulic modelling
- Geographic information system

Professional experience

- Pinion Advisory – Graduate Engineer, 2022 - present

CAPABILITY STATEMENT

Relevant projects

PROJECT	ROLE	CLIENT	YEAR/S DELIVERED
Willunga Basin Water Feasibility Study	Perform feasibility study to optimise the water distribution network at Willunga Basin	Willunga Basin Water	2022-ongoing
ASI Scholarship	Analysed data to find the best operational shutdown behaviours in water distribution networks and to minimise impacts on water quality	University of Adelaide	2020-2022
Graduate Scholarship	Analysed statistical data for feasibility study of wastewater treatment and modified conceptual reactor design for Water Pollution Control Facilities	Iowa State University	2016-2018
Iowa DNR Best Management Practices Project	Digitised data to apply in watershed modeling to explain historic occurrence and track future practices	Iowa State University Geographic Information Systems Facility	2017