STA CONSULTING ENGINEERS

Smart, practical engineering for residential and commercial construction projects

THE ROLE
Hydraulics Engineer

Full Time. Permanent.

Eight Mile Plains.

THE TEAM
Brisbane and Kuala Lumpur

Reports to the Hydraulics Design Manager.

THE COMPANY
STA Consulting Engineers

Family and employee owned since 1991.

Smart, practical engineering. Built on people.

We're family and employee owned. We leave egos at the door. Collaboration is a core value, and it's the reason people stay.

Ready to apply? Send us your CV and a short note on why this role caught your eye.

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THE ROLE

What you'll do.

Engineering that manages water, from site runoff to building services.

You'll apply stormwater design, hydrological analysis and overland flow modelling across residential and land development projects.

Reporting to the Hydraulics Design Manager, you'll assess development impacts, recommend practical mitigation measures and build capability across broader building hydraulics.

- **Design stormwater solutions.** Deliver stormwater designs across residential and land development projects, balancing practical engineering outcomes with project requirements.
- **Analyse development impacts.** Undertake hydrological analysis and overland flow modelling for existing and proposed development conditions.
- **Build and maintain models.** Develop digital models, run before and after analyses, and maintain modelling outputs as project data and scope evolve.
- **Evaluate flood risk.** Assess changes in runoff, erosion, water accumulation and flood risk, and identify areas susceptible to flooding.
- **Interpret technical data.** Analyse meteorological, topographic, soil, land-use and spatial data to support clear design decisions.
- **Work with specialists.** Collaborate with planners, designers and environmental specialists to recommend practical mitigation measures.
- **Communicate clearly.** Prepare technical reports, visualisations, maps and recommendations for management, clients and stakeholders.
- **Broaden hydraulics capability.** Contribute to building hydraulics design across roofwater drainage, sanitary drainage, water supply, fire services, gas design and effluent disposal as capability develops.

What success looks like

- Stormwater designs are accurate, coordinated and delivered on time.
- Development impacts are clearly identified and communicated.
- Modelling outputs are reliable, practical and support informed project decisions.
- Flood risk, runoff and water accumulation impacts are assessed with sound engineering judgement.
- Stakeholders receive clear, responsive and proactive technical support.
- Quality standards are maintained with minimal rework.
- Capability continues to grow across both stormwater and building hydraulics disciplines.

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A WEEK IN THE ROLE

Your typical week.

- **Model.** Building and refining overland flow and stormwater models.
- **Analyse.** Reviewing site data, flood behaviour, runoff impacts and development conditions.
- **Design.** Developing practical stormwater management solutions for residential and land development projects.
- **Report.** Preparing technical reports, plans, maps and supporting documentation.
- **Collaborate.** Working with planners, designers, environmental specialists and internal project teams.
- **Support.** Responding to technical queries from clients and project teams.
- **Learn.** Expanding capability across roofwater drainage, sanitary drainage, water supply, fire services, gas and effluent design.
- **Deliver.** Managing project priorities and keeping progress moving across multiple jobs.

WHY JOIN US

What you get in return.

Varied project work.

Work across residential and land development projects with genuine technical ownership.

Broader hydraulics growth.

Expand your capability into building hydraulics disciplines while applying your stormwater expertise.

Collaborative culture.

Open-door, low-ego teams where practical ideas and clear communication are valued.

Flexibility and support.

One work-from-home day per week by manager approval, free on-site parking and ongoing professional development.

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WHERE THIS GOES

Where this role can take you.

Hydraulics Engineer is a key technical role within STA's Hydraulics team. From here, the pathway can lead towards Senior Hydraulics Engineer, Technical Lead or Design Management as your project ownership and broader hydraulics capability grow. We back CPD and promote from within wherever possible.

WHAT YOU'LL BRING

Who we're looking for.

- **Qualifications.** Degree in Civil or Environmental Engineering, Hydrology, Water Resources or a related field.
- **Experience.** Minimum five years relevant industry experience, with stormwater design and residential exposure highly regarded.
- **Technical capability.** Strong knowledge of hydrology, hydraulics, overland flow modelling, flood-risk assessment and land development impacts.
- **Software skills.** Experience with tools such as DRAINS, HEC-HMS, SWMM, MIKE SHE, EPA-SWMM, ArcGIS, QGIS or AutoCAD Civil 3D.
- **Data and reporting.** Comfortable interpreting spatial data, DEMs and GIS outputs, and communicating technical findings clearly.
- **Building hydraulics.** Broader experience in roofwater drainage, sanitary drainage, water supply, fire services, gas design or effluent disposal is highly regarded.
- **Project judgement.** Able to assess runoff, erosion, flood risk and mitigation options with practical engineering judgement.
- **The right temperament.** Collaborative, low ego, high standards, and aligned with STA values of Integrity, Accountability, Collaboration and Innovation. Australian work rights required.

Ready to apply?

Send us your CV and a short note on why this role caught your eye. We review applications weekly and aim to come back to you within five business days.

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