



## Corrosion Engineering

Infrastructure value and performance can be threatened by corrosion.

Engenium's body of knowledge means we can prevent corrosion issues during the design stage or provide corrosion mitigating solutions for existing assets.

Our professional team are industry leaders in the field and have published research on the various aspects of the analysis, repair and maintenance of structures.

We deliver smart, proactive and pragmatic engineering advice at all stages of the project and asset lifecycle, through collaborative partnerships with our clients.

### Our Capabilities

#### Design Engineering and Consulting

- Corrosion minimisation through design
- Design for corrosion allowance
- Environmental risk identification
- Corrosion prevention maintenance planning.

#### Risk Mitigation

- Structural risk assessment
- Structural and condition audits
- Structural evaluation.

#### Condition Inspections and Surveys

- On-site inspection and measurement surveys
- Aerial (Drone) inspection
- Non-destructive testing and sampling
- Deterioration prediction and monitoring
- Inspection/survey review.

#### Remedial Works

- Options development and analysis
- Technical specification and procedure provision
- Selection of coatings, materials and corrosion technologies
- Technical contract documentation
- Tender development assistance
- Contract and procurement services
- Project engineering support.

#### Operations and Maintenance

- Asset maintenance strategy and planning
- Inspections schedule and reporting
- Corrosion specific monitoring equipment.

#### Forensic Engineering

- Expert investigation, inspection and testing
- Failure mode analysis
- Forensic and statutory reporting
- Expert witness provision.

**Delivering Value. Delivering Results.**