



DESIGN & DRAFTING

At Ingenia, our designs incorporate functionality, performance and maintainability, areas that are crucial to the project outcome.

We develop practical designs which meet client's needs whilst complying with relevant regulations and standards. Our capabilities allow us to document our designs and enable our clients to visualise upgrades and complete any pre-production evaluations before signing off on the job.

The following design and drafting services are provided:

- Onsite point cloud scans and data capture
- 2D and 3D design and modelling
- Conceptual design and detailed design drawings
- Design review and virtual design presentations
- Fabrication shop drawings including BOM, NC and DXF files
- UAV condition assessments and thermal inspections
- VR capabilities



RISK MANAGEMENT

Ingenia has extensive experience in managing and mitigating risk to ensure success for our clients.

Our team understands that the identification, evaluation, and management of risks within your project or work environment is critical to your success.

Ingenia offers the following risk management activities:

- Risk based plant inspections including condition assessments
- Safety in Design (SID) and AS4024 machine safety assessments
- Platforms and access ways assessment to AS1657
- HAZOP and Safety In Design (SID) workshop facilitation
- Forensic engineering
- Plant and equipment life assessments
- Reliability Centred Maintenance (RCM)
- Engineering analysis using techniques and tools including:
 - FMECA
 - Root Cause Analysis (RCA)
 - Fault Tree and Five Whys
 - Condition assessment and management

GET IN TOUCH

If you have a project that requires reliability, innovation and the kind of know-how that only comes from years of experience, get in touch with the Ingenia team today.

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Providing a range of specialised and complementary engineering and design services, from project initiation through to commissioning and close out.

ABOUT US

Ingenia is a client-focused consulting company providing a range of specialised and complementary engineering and design services to both Australian and international clients. We offer full lifecycle project support, from project initiation through to commissioning and close out.

Ingenia's skilled team tailor every job to meet our client's needs, because one size doesn't fit all, and we wouldn't want it to.

We begin every project by working with our clients to gain a thorough understanding of their goals. Our multidisciplinary team can provide feasibility studies, system layouts and visualisation, site integrations, component design and specification, design simulation and more.

By gaining a full understanding of the project and all necessary requirements, we can help our clients to visualise the end result and identify any barriers or risks before they occur.

By utilising our experience and working together, we help our clients achieve more.

OUR MISSION

Ingenia's mission is to deliver innovative and world-class engineering solutions that are tailored to the unique and individual needs of every client.

OUR VALUES

HONESTY

We build trust with our clients through honesty, integrity and respect.

INNOVATION

We're constantly thinking outside the box to remain ahead of the pack.

CLIENT FOCUS

Understanding the needs of our clients is at the heart of what we do.

RELIABILITY

We aim to deliver what we promise. On time, every time.

OUR KEY SERVICES

Providing a range of specialised and complementary engineering and design services, Ingenia offers innovative solutions to meet and exceed our client's expectations.



PROJECT MANAGEMENT

If you need an experienced Project Manager to drive and support your next project, Ingenia can offer full lifecycle project support, from the early planning stages through to project evaluation and testing.

Our skills in this area include:

- Best practice documentation and contractor management.
- Business case development and feasibility studies.
- Cost estimation and budgeting.
- Tender management and response evaluation.
- Project scheduling and delivery planning.
- Onsite contractor management, including site safety.
- Acceptance testing, including handover documentation.



ENGINEERING

Ingenia can provide multidisciplinary engineering services for your next project, offering Mechanical, Structural and Civil Engineering. We apply our knowledge and broad experience to all of our designs, ensuring the best outcomes for our clients.

We provide engineering design compliance, certification, reporting and review, all to Australian Standards. This includes the following services:

Structural and Civil

- Commercial and industrial building design
- Foundation design
- Retaining structures and deep excavations
- Materials handling structures
- Temporary works and construction support
- Value engineering
- Lifting beams and gantries
- Platforms, stairways, and access ways to AS1657
- Portable platforms
- Maritime structures, including wharves, jetties and board walks

Mechanical

- Materials handling, including silos, chutes, hoppers, bins and conveyor design
- Shutdown works and site support
- Pressure vessel design
- Tank design to API and Australian standards
- Pipe and pipeline design
- Lifting devices, and hoists
- Machine safety to AS4024 and AS1755
- Finite element analysis
- Process design

