

Structural

Our Structural engineering team has extensive experience in both Brownfield and Greenfield developments.

Our Engineers and Designers are proficient in multiple engineering applications that enable efficient and effective execution of our structural engineering and design activities.

Engineering Expertise from Concept to Completion

At EMC, we combine technical excellence with innovative thinking to deliver digital engineering solutions from conceptual studies through to detailed engineering.

Our highly experienced team with decades of experience in cost-effective, schedule-driven design and execution, solve complex industrial challenges with a consistent record of reliable, high-quality results.

Whether it's a greenfield development, brownfield expansion, or asset life extension, our team delivers creative, practical solutions tailored to your needs.

Our technology-agnostic approach ensures we apply the latest methods, codes and standards and best-fit tools—without compromising on safety, performance, or quality.

Engineering Services

Structural Engineering Capabilities

Our structural team is highly experienced in delivering both brownfield and greenfield solutions in onshore and offshore environments.

Advanced Engineering Tools for Smarter Delivery

Empowering Precision and Performance

At EMC, we harness a robust suite of industry standard advanced engineering applications to ensure seamless execution of engineering and design tasks across the structural discipline.

Key Tools We Use:

- Bentley STAAD Pro - Structural analysis and design.
- AVEVA Everything3D - 3D modelling for integrated engineering, design, and spatial coordination.
- Tekla Structures - Assembly, part drawings complete with NC file data, with weld and bolting details for fabrication and full traceability.
- SACS - Interactive graphics modeler with advanced 3D capabilities.

Why It Matters:

- ✓ Early risk identification and mitigation
- ✓ Integrated multi-discipline collaboration
- ✓ Enhanced accuracy and design efficiency
- ✓ Streamlined spatial management across project phases

Delivering confidence through technology at every stage of your project.

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Commitment to Quality and Compliance

At EMC, the technical quality of our work is underpinned by our robust Quality Management System, Health, Safety & the Environment to the latest industry codes and standards.

Our structured approach, featuring Discipline Engineers, Technical Authorities, and Discipline Management, ensures all designs go through project multi-discipline reviews and approvals by qualified and experienced professionals, maintaining the highest standards of engineering integrity.



Aveva Systems Integration Partner

EMC Supports the full Engineering suite embracing EPC4.0 and ENG4.0 roadmaps with the release of EMC4.0™

- PRO/II Simulation
- Electrical
- Instrumentation
- Engineering for Process and Mechanical
- P&IDs
- ERM
- ISM/AIM-A
- PCM

Capabilities Snapshot

- Offshore and Onshore oil and gas design
- Brownfield upgrades and modifications
- FPSO Design
- E3D modelling
- STAAD Pro 3D Structural analysis
- SACS Offshore structural analysis
- Point Cloud integration for a clash free design
- Conceptual studies, feasibility studies and detailed engineering & design
- Design and Fabrication deliverable production
- Construction phase support
- Onshore and offshore surveys
- On-site support for fabrication

Let's Engineer, Design & Build something exceptional together.

Contact us today to learn how our engineering expertise can bring your project to life.

Contact EMC today! Email colin.fairweather@emcserv.com or gary.patterson@emcserv.com or call us on 020 363 363 03 (Option 2), and let's get started.