

Engineering Services & Capabilities

Reliable Connected Technology Solutions!

GMC is an independent offshore engineering services company with over 20 years of experience in delivering offshore projects around the globe.

Our team of engineers and analysts have an in-depth understanding of the difficulties involved in offshore and deepwater projects and are skilled at providing innovative solutions and a “think out of the box” attitude to create engineered solutions for our clients.

GMC’s Engineering Capabilities include:

Engineering Solutions

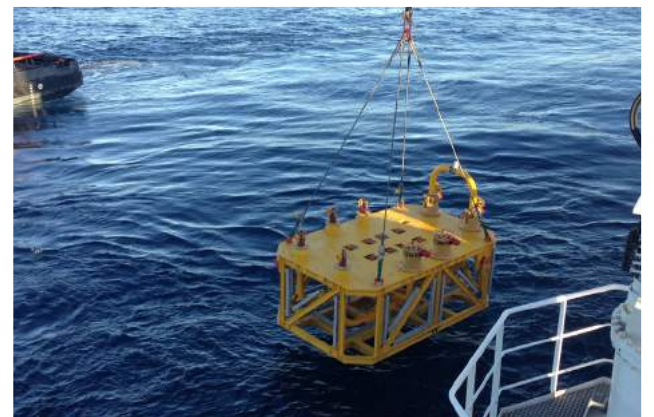
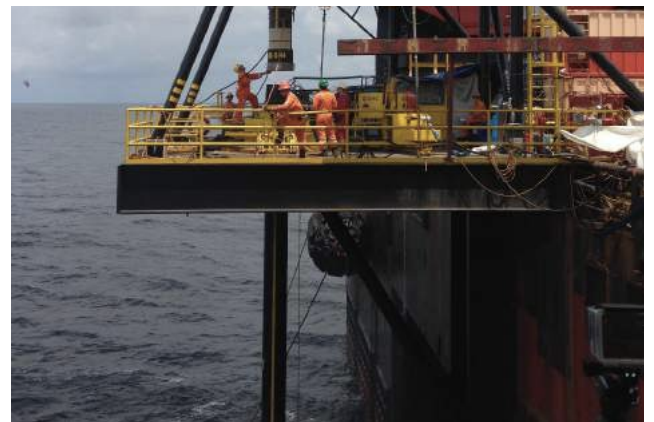
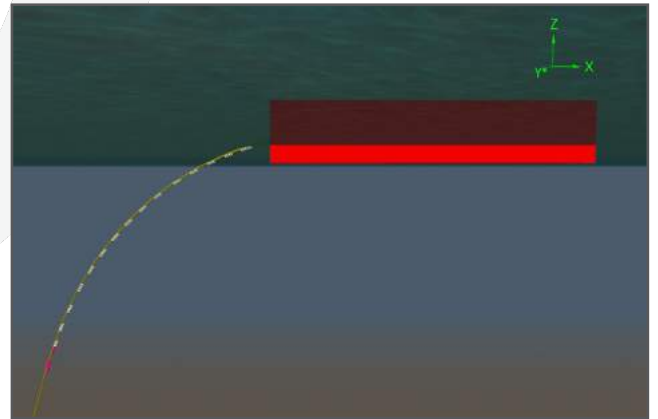
- Estimating, FEED & Bid Support
- Structural Design & Analysis
- Pipeline & Riser Engineering
- Equipment & System Design
- Vessel Design & Modification
- Project Management

Riser Engineering

- Global Motions (Static & Dynamic)
- Pipe Sizing
- Thermal Insulation
- Material & Corrosion
- VIV Suppression
- Fatigue Analysis
- Interference Analysis
- Fracture Mechanics

Pipeline Engineering

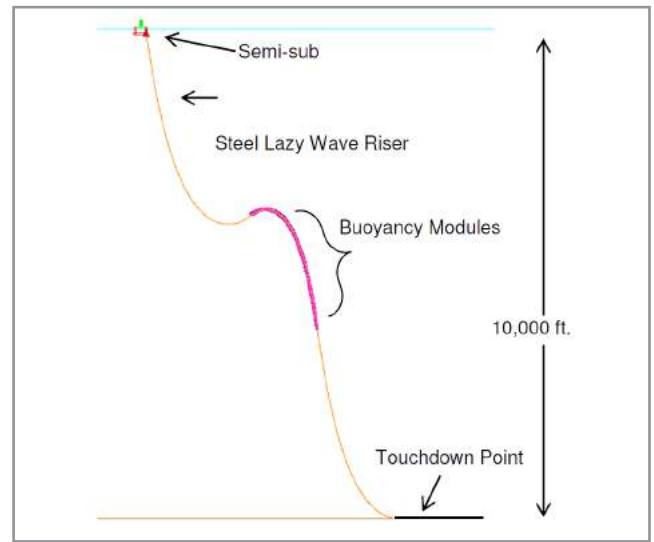
- Route Selection
- Pipe Sizing
- Material & Corrosion
- Mechanical Design
- On-Bottom Stability
- Thermal Design (Expansion & Buckling)
- Crossings
- Spans
- Trenching
- 3rd Party Review



*Experience & Innovation in Tubular
Connection Technology from Surface to Seabed*

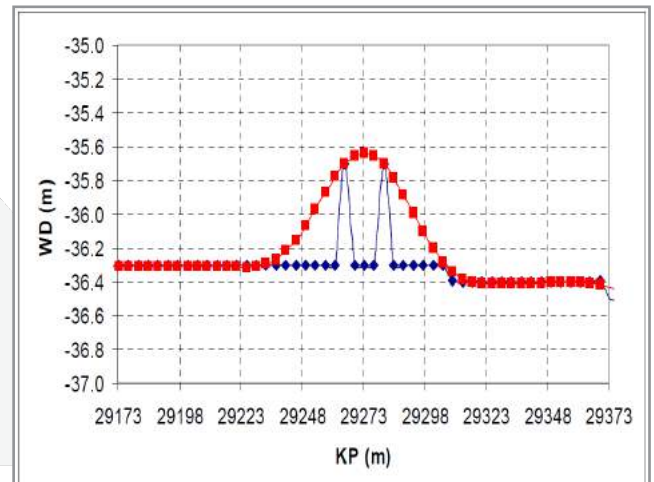
Riser & Pipeline Installation

- S-Lay
- J-Lay
- Alternative Methods
- Static & Dynamic Pipe Lay
- Start-up & Laydown
- Abandonment & Recover
- Installation Specification Development
- Pipeline Crossings
- Transportation Analysis
- Davit Lifting
- Tie-In Davit Lift Analysis
- Pullhead Design
- Installation Aids
- Flexible & Umbilical



Risers and Pipeline Consultancy

- Life Extension
- Third Party Reviews
- Risk Analysis
- HAZID /HAZOP
- Conversion & Installation Management



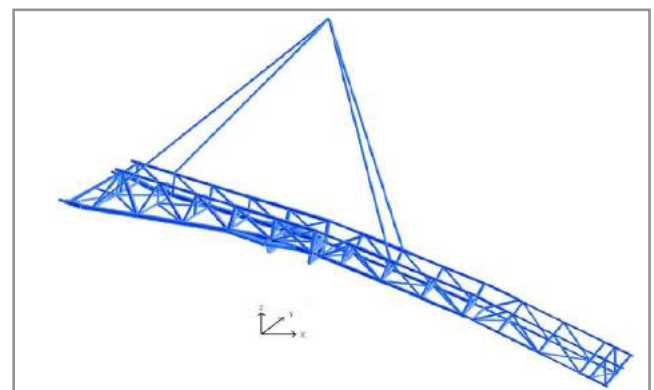
Subsea Engineering

- Design, Engineering, Construction, Installation, & Project Management
- Subsea Systems Engineering & Support
- Analysis of System Requirements
- Component & Installation Cost Estimating
- Project Risk Identification: Technical & Commercial
- Project Execution, Procurement, Fabrication, FAT/ SIT Support
- Procedure Compilation
- HAZID/HAZOP



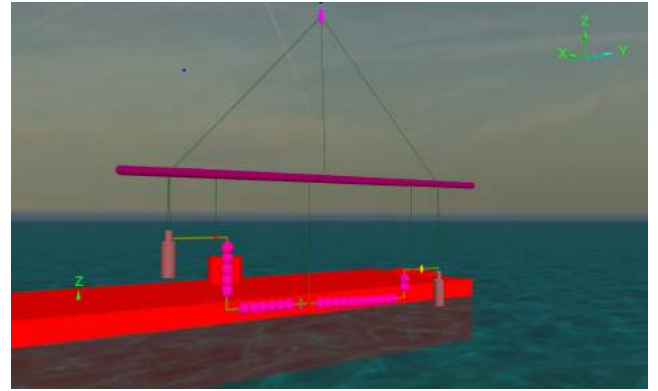
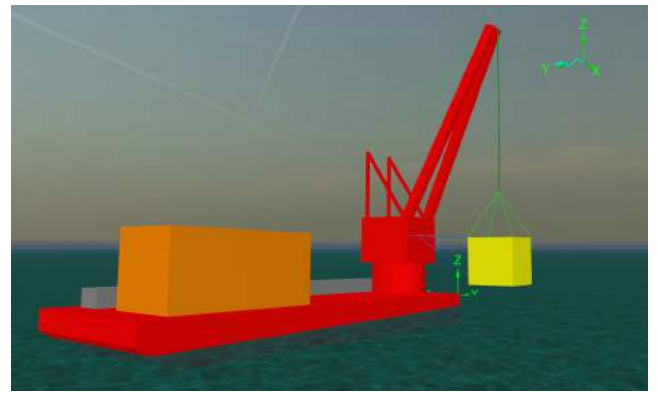
System and Equipment Design

- Pipe Lay Equipment
- Stinger & Handling Systems
- Davits & A-Frames
- Winch Installations
- HPUs
- Riser Tools
- Deepwater Lowering System



Marine Analysis

- Hydrodynamic Analysis
- Mooring Analysis & Design
- Transportation Analysis
- Vessel Inspections & Audits
- Vessel/Facility Workability
- Vessel Strength & Stability
- Vessel Motion Analysis
- Vessel Installation Commissioning & Decommissioning
- Ballast System Design/Upgrades
- Loadout Analysis
- Seafastening Analysis & Design
- Deck Loading Engineering & Analysis
- Jacket Launch & Upending Analysis
- Float Over Analysis



Installation Engineering

- Vessel Inspections & Audits
- Supply of Offshore Personnel
- Deepwater Installation Engineering
- Shallow Water Installation Engineering
- Vessel Design & Modification



Platform Engineering

- Design, Engineering, Procurement, Construction, Installation, & Project Management
- Life Extension
- Platform Installation Commissioning & Decommissioning
- Vessel Installation Commissioning & Decommissioning
- Deepwater Installation Engineering
- Shallow Water Installation Engineering
- Offshore Structural Analysis
- Conductor Analysis
- Foundation Design
 - Mudmat Design
 - Suction Cans & Buckets
- Jacket Installation Analysis
- Jacket Transportation Analysis
- Jacket Reclassification Analysis
- Pile Design & Installation Analysis
- Riser Preliminary & Detail Design
- Project Execution, Procurement, Fabrication, FAT/ SIT Support



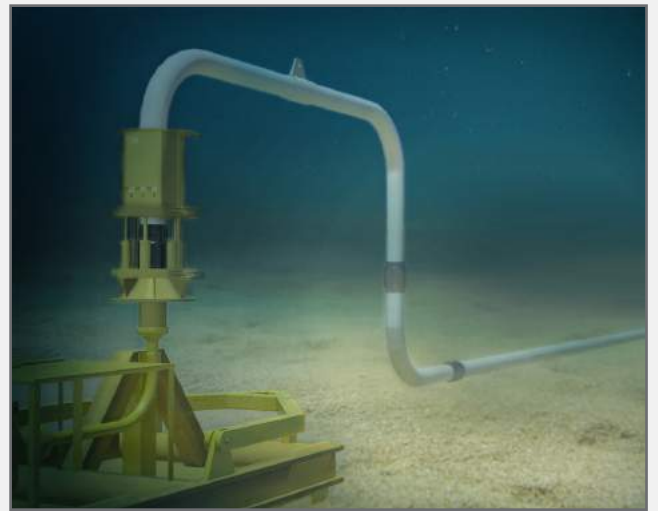
Field Development

- Concept Screening & Selection
- Estimating, FEED, & Bid Support
- Field Development Planning
 - Conventional & Non-Conventional
 - Alternative Methods
 - Low Cost Methods
- Project Risk Identification: Technical & Commercial
- Project Execution, Procurement, Fabrication, & FAT/SIT Support



In-House, Onsite, & Offshore Support Personnel

- Senior Project Manager
- Project Manager
- Project Superintendent
- Project Engineer
- Senior Analyst
- Design Engineer
- Designer
- QHSE
- Inspectors
- Purchasing
- Administrative



For more information, visit www.gmcdeepwater.com, or contact info@gmcdeepwater.com