Company Profile

PAPE Engineering Pte Ltd, part of Swiber Group, offers engineering services, expertise and basic & detail design to major Oil & Gas companies.

PAPE has been supporting the success of Oil and Gas EPCI contractor in Singapore, Brunei, India, Thailand, Vietnam, Malaysia, Indonesia, Myanmar, Australia and Mexico since 2008.

PAPE track records cover:

- Ship Design and Marine Engineering (New build, conversion, repair...)
- Pipeline, Flexible and Riser detail design and 3rd party
- Offshore structures detail design and 3rd party (SPM Buoys, fixed structures, Subsea modules...)
- Engineering for Offshore Transportation and Installation projects (Float Over detail design, Mooring detail design, Pipelaying engineering, Offshore Heavy lifting engineering...)

PAPE has offices in Singapore and Jakarta and, upon Parent companies, facilities in France, Brunei, Kuala Lumpur, Mumbai, Sharjah, Bangkok, Brazil and Denmark.

Responsibilities

- Serve as Lead Pipeline Engineer on assigned project or multiple projects or the part of the project areas in Home/Client Office or any other places as decided by the Department Manager/Project Management/Company Manager and/or Clients.
- Carry out bid engineering support and prepare technical bid packages.
- Develop Cost-Time Resource (CTRs) and Major Deliverables Register (MDR) and furnish weekly/monthly progress report (including concerns) for the project/department/management.
- Execute detailed engineering design of pipeline, Post-AFC, and construction/installation support engineering or follow-on engineering, Procurement support, etc.
- Perform offshore pipeline design. Analyses/calcuations:
  - Rigid pipeline / riser system detail design:
    - Pipeline Design Basis, Pipeline Route optimization, Wall thickness calculation, on-bottom stability analysis, Expansion analysis, Free-span analysis, Riser and tie-in spool analysis, Crossings design and analysis, On-bottom roughness analysis, Cathodic protection design, lateral bucking, Dropped object and trawl gear impact study, installation analyses (static and dynamic), Tie-in Lifting Analysis etc.
- Carry out pipeline material selection and material take-offs and other technical reports.
- Check and develop field layouts, route map, alignment sheets, crossings, riser GA for pipeline design.
- Prepare technical requisitions, datasheets, specifications, technical bid evaluation, vendor data review, technical clarifications, inspection and test plans, Criticality rating for pipeline items such as Line Pipes, Induction Bends, Subsea Flange/Fittings, Coating, Subsea Valves and other as procurement support engineering.
- Provide Construction and Installation support and do site visit if necessary.
- The following software proficiency is required:
  - Pipeline Analysis: AUTOPIPE or equivalent, AGA, OFFPIPE/ORCAFLEX/DEEPLINES/FLEXCOM, DNV Tool (PET)
  - Finite Element Analysis: ABAQUS or ANSYS or Equivalent
  - Documentation/Calculations: MS Word, Excel, MathCAD, etc.
  - Drawing and drafting: AutoCAD.
- Should have in-depth understanding/conversion with ASME, ASTM, API, BS, DNV, ISO, etc. International codes and standards.
- Coordinate within members of pipeline discipline, other engineering disciplines within the organization or project team as well as with Clients, third parties, vendors etc.
Supervise a group of engineers/designers, check all the documents produced by engineers and designers and provide assistance to engineers and designers in order to produce the deliverables correctly before submission.

Requirements

- Engineer, Possess minimum a Degree/Master/PHD in Engineering preferably from local university or from international recognized university.
- Up to date knowledge and experience with the offshore oil and gas industry with 10 years of relevant experience or longer in design and analysis of pipelines.
- Good leadership, planning, organizing and interpersonal skills.
- Ability to work well independently and in a team.
- Ability and willingness to meet agreed deadlines.
- Well-developed report writing skills.
- English spoken, written and working language.
- Good knowledge of international pipeline design codes/standards and specifications.
- Past involvement as lead engineers with major oil companies projects.
- Work experience of 10 years in engineering and detailed analysis preferably within related industry.