



# Engineering

From projects on fixed and mobile installations to asset management and consultancy, we provide lifecycle engineering solutions dedicated to enhancing asset performance.

We offer services encompassing conceptual solutions through detailed design and construction to final offshore and onshore commissioning. Founded on decades of drilling experience our experience and depth of expertise ensures **we have the capacity to handle projects of any size, at any stage in the operational lifecycle.**

Through our full suite of engineering, procurement and management capabilities, Archer sets the engineering procurement construction (EPC) standard in drilling facility development, maintenance and operational support.

## **Engineering experience**

Everything that we do is underpinned by operational experience, gained through more than 40 years in the industry. We currently have over 450 engineers and project managers globally working for 20 clients across 10 different countries.

Most of our team have operational offshore experience and by working closely with our drilling and maintenance teams we have a great deal of relevant industry experience and accumulated practical knowledge to guide our range of engineering services.

Not only does this make us extremely end-user focused, it helps ensure our solutions are truly integrated, cost effective and fit for purpose. Through our multi-disciplinary teams, that have faced and overcome technical delivery challenges in every kind of operating condition, you'll find we always provide straightforward solutions to unique problems.

# We deliver a range of engineering services to suit client requirements ensuring that we can help our customers deliver better wells both onshore and offshore.

## **Consultancy**

We can support well design, rig design and operational performance of both MODU and fixed installations.

## **Compliance assessments**

We can undertake, with integrated Rig Inspection teams, thorough compliance analyses to evaluate the operational status of drilling equipment and systems in compliance to class, codes, standards and authority regulations.

## **Front End Engineering Design**

We co-ordinate information and design data available, and draw extensively on the documented experiences of our own highly experienced personnel to complete each FEED study to a level to allow informed decisions to be made with regard final project sanctioning.

## **Design and drafting**

We offer design and drafting services for conceptual and FEED designs through to detailed design for Greenfield and brownfield projects. Additionally, we have undertaken many as-built survey and back-drafting projects. The tools we use are to the latest industry standards and our teams are fully trained and experienced in the most appropriate software for each project.

## **Commissioning**

As well as offshore commissioning teams we have onshore commissioning engineers, whose sole purpose is to ensure a smooth handover to operations. Our engineers take care of all planning, preparation and execution until the facility is signed off as Ready For Operations by the client.

## **Project management**

Our range of project management related services include: rig delivery; planning and cost control; document control; procurement; construction follow up; integration and installation; testing and commissioning; SPS management; product life cycle management; rig inspection services and hot/ cold stacking management. These processes are set out in our "project execution model" which is a stage-gate design.

## **Platform Drilling / Maintenance & Engineering Services (PDM&E)**

We can integrate drilling and engineering services to manage, operate, maintain and upgrade our clients drilling facilities.

## **Mobile Drilling Unit services**

We undertake modifications of all sizes for Mobile Offshore Drilling Units (MODU) and offshore vessels.

We always aim to provide solutions to suit project needs – from organizing an entire five year classification and yard stay to simply assisting with selected services as project manager and project control.

We are able to handle the entire project; from initial inspection and concept development through to procurement, engineering, installation, delivery and close out.

## **Integrated Asset Management Services**

Our integrated asset management services complement our broad expertise with a full range of: inspection; reliability and integrity management services; maintenance management; and asset management system support which enable facility performance improvement.

Individually, or as a part of an integrated asset performance improvement program, our integrated asset management services deliver a competitive advantage to our clients