



# James Fisher Offshore

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Subsea excavation and trenching

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## Subsea excavation and trenching services

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Leading provider of controlled flow excavation services worldwide

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The James Fisher Offshore (JFO) fleet of controlled flow excavation (CFE) equipment provides a non-contact form of excavation that eliminates the risks associated with other excavation methods, especially around complex subsea assets.

Combining experience and innovation, we deploy the right technologies to optimise project delivery.

### Global reach

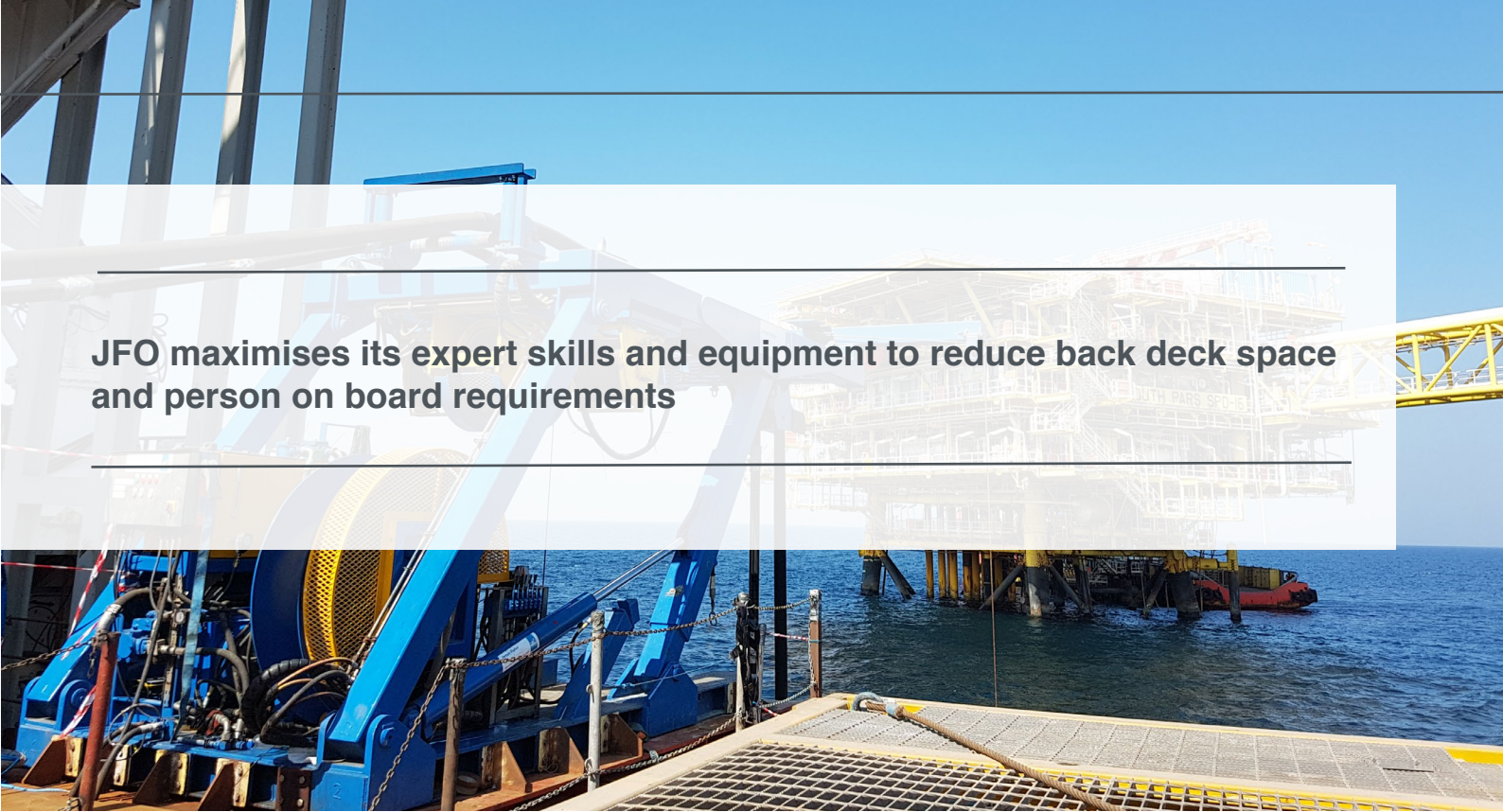
With dedicated local resources, JFO is strategically positioned to react quickly to fully support the rapid mobilisation of offshore projects.





**JFO provides an integrated controlled flow excavation solution to deliver against all project needs**

- Pipeline and cable trenching
- Backfilling
- De-burial for emergency repair/IRM works
- Seabed preparation and clearance
- Pre-sweeping preparation
- Rock dump dispersal and removal
- Decommissioning and abandonment work
- Free-span rectification
- Spud can clearance
- Drill cuttings dispersal
- Harbour and channel clearance



**JFO maximises its expert skills and equipment to reduce back deck space and person on board requirements**

Our expertise allows us to fully understand our customers' specific requirements, providing complete methodologies and cost-effective engineered solutions. JFO's CFE team has over 22 years' experience in the subsea excavation sector and is responsible for the successful completion of more than 550 projects in over 50 countries.

JFO's team of dedicated multi-skilled offshore technicians, provide local and international project support and can react quickly to fully deliver rapid mobilisations, mitigating risk and saving time and cost on critical projects.

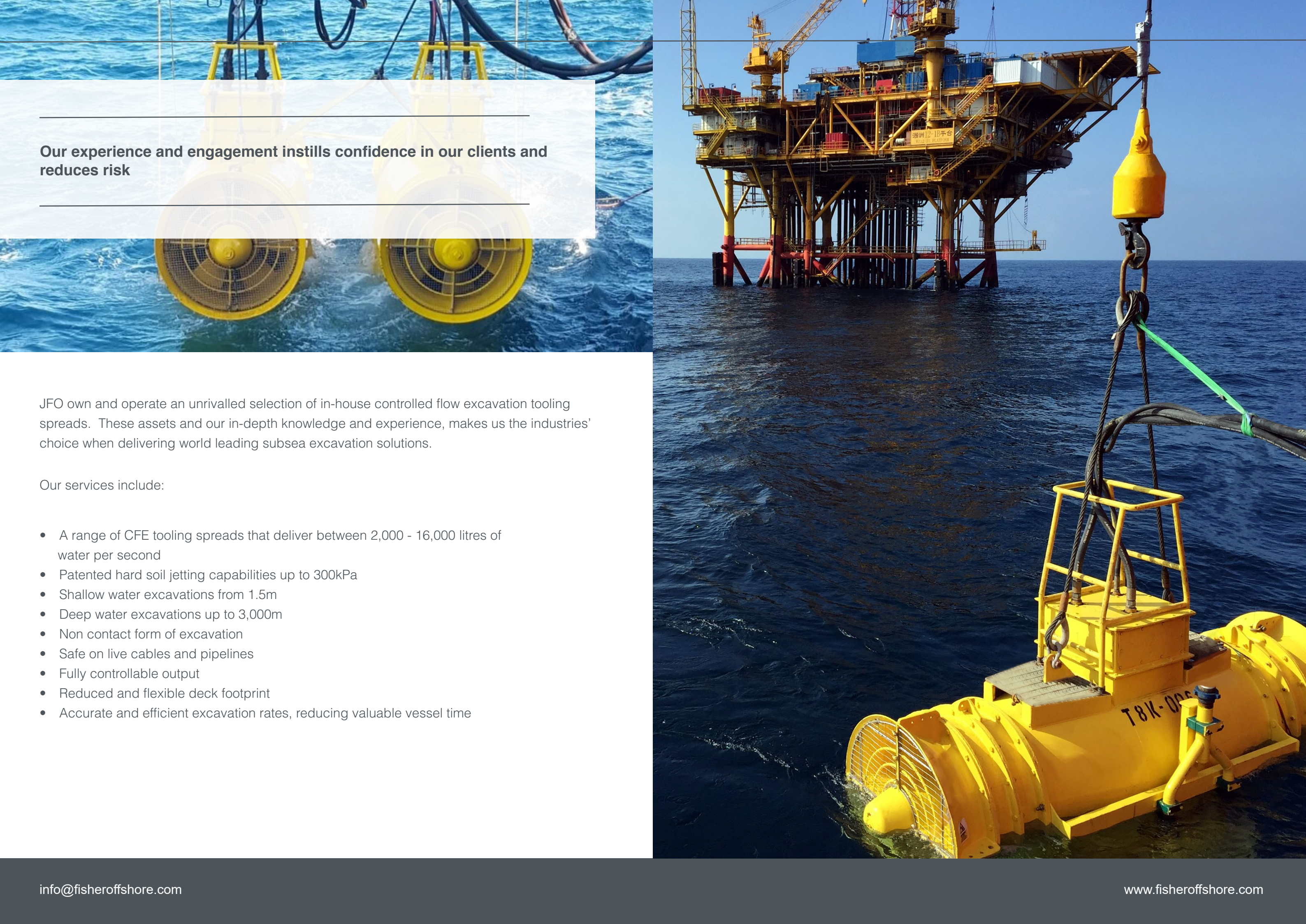
We have retained a strong team of CFE personnel for over 20 years, who share a wealth of industry knowledge and experience.

*"The overall performance from the team was excellent. The crew were very helpful and committed to the job at hand."*

Vessel Superintendent, Tier 1 subsea contractor







**Our experience and engagement instills confidence in our clients and reduces risk**

JFO own and operate an unrivalled selection of in-house controlled flow excavation tooling spreads. These assets and our in-depth knowledge and experience, makes us the industries' choice when delivering world leading subsea excavation solutions.

Our services include:

- A range of CFE tooling spreads that deliver between 2,000 - 16,000 litres of water per second
- Patented hard soil jetting capabilities up to 300kPa
- Shallow water excavations from 1.5m
- Deep water excavations up to 3,000m
- Non contact form of excavation
- Safe on live cables and pipelines
- Fully controllable output
- Reduced and flexible deck footprint
- Accurate and efficient excavation rates, reducing valuable vessel time



## Proven Track Record

JFO delivers time and cost-effective controlled flow excavation solutions



### London Array OWF cable repair campaigns

- Emergency de-burial of over 1km of damaged cables
- Re-trenching of repaired cables to between 1.5 - 2.6m top of cable
- Shallow water operations at 4 - 6m water depth



### Hornsea 2 OWF, UKCS

- Cable de-burial
- Re-trenching of cable
- SP600 CFE tool with its own LARS allowing for the vessel crane to be free for simultaneous operations



### Esma 1 cable repair, Gibraltar

- Cable de-burial works on 33 locations along a 4km section of cable
- An integrated deep water CFE methodology utilising the T4000 and MultiROV tool at 480m water depth



### Anglo-Suisse wellhead P&A, GOM

- Excavation around 11 bent conductors to allow for decommissioning of a platform
- T8000 CFE equipment spread
- Operations at 61m water depth





### Pipeline trenching, Durban

- Contracted to lower 500m of live 57" pipeline to relieve critical stress
- Twin R2000 CFE tool operated at 1.4m above the pipeline



### Caspian cable burial, Russia

- T4000 CFE tool trenched approx. 15km of a 70mm diameter power cable to a depth of 1.8m
- Full route backfilling completed
- Project completed ahead of schedule



### OWF, East Coast USA

- Emergency call-off
- Trenching and backfilling of cable
- Mobilisation from our GOM facility and utilising the Twinprop CFE tool







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