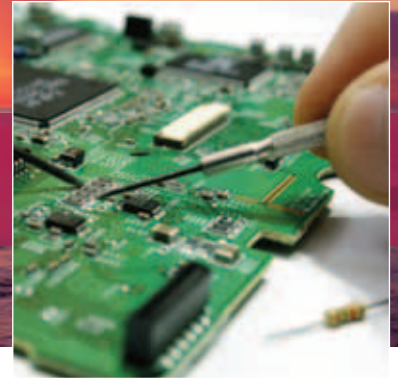


Make the move

ELECTRICAL, ELECTRONIC, HYDRAULIC or MECHANICAL ENGINEERING to MARINE CONTRACTING



Interested in the exciting opportunities in the marine contracting sector but not sure how to match your education, experience and skill set to a relevant career? This **make the move** series aims to explain just where you might fit in.

The offshore marine contracting industry uses the most amazing array of equipment as complex as anything in outer space. And designing, constructing, operating and maintaining it all requires just the same multidisciplinary approach familiar to systems engineers with any of the above backgrounds or qualifications.

Marine contractors are multidisciplined themselves. They operate cranes of all different shapes and sizes right up to 7,000te capacity. They lay pipelines and operate diving, ROV (remotely-operated vehicle) and survey systems which are at the very cutting-edge of their technologies. They work with GPS systems a hundred times more accurate than those in cars, and use satellites as reference points and of course for telecommunications. Then there are the main engines, perhaps the preserve of marine engineers, but their controls and ancillaries could be your responsibility too.

Take the ROV as an example. These underwater robots weigh up to 5te and can work right down to 3km below the surface. Packed with electric motors, lights, cameras, sensors and mechanical tools they are controlled electrically and hydraulically from the surface through an umbilical linked to a complex joy stick console.

ROVs are piloted (flown) to the work site to deploy manipulators that replicate delicate human hand operations or engage more powerful pulling, cutting or rotary tools. Getting into the water and out again needs integrated launch and recovery systems.

With this and all the other pieces of equipment there are challenges for the most adventurous brains as well as opportunities to learn and work with others and progress quickly to senior roles, project positions and management. Your problem solving and design skills, using the best computing tools, are required to deliver fast, economical and efficient solutions.



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