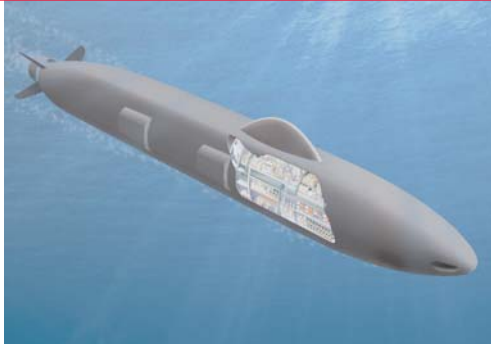


# Technology Development

## for Future Submarine Programmes and the Nuclear Industry



**Nuclear-powered submarines are among the most complex products in the world. Their design and build presents a series of demanding technical challenges, principally in the development of appropriate, innovative and affordable technology to meet the Royal Navy's needs.**

BAE Systems Submarine Solutions is committed to working with the Ministry of Defence, the wider Submarine community, Universities and Key Suppliers to make strategic investments in submarine and nuclear-related technology.

Innovation and product development applied across the company includes:

- Development of improved production technology
- Adaption of technologies from related markets
- Where not available commercially, taking the vital lead in developing new technology relevant to emergent military or nuclear requirements
- Where appropriate, applying developed military technology and skills to export submarines, surface ships and other industries.

Our Nuclear and Radiological Instrumentation Centre provides state-of-the-art electronic test equipment and calibration services in support of current and future nuclear submarine programmes. Its unique team has highly specialised capabilities and conducts research into advanced detectors, sensors and shielding materials.

The team has developed a range of specialist resilient radiological instrumentation suitable for use in the harsh environment of a nuclear powered submarine. It works closely with other engineering teams in the business responsible for all submarine secondary radiation shielding, its design, validation, installation and integration.

