Cloud Chemical, Biological, Radiological, Nuclear, and high yield Explosives (CBRNE) Services

AtkinsRéalis

What We Do

AtkinsRéalis helps government procure, design, build and install CBRNE solutions utilising cloud services. Our CBRNE team comprises policy specialists, business analysts, enterprise architects, test and trials specialists, engineers, software developers and change consultants to provide solutions which tackle the complex engineering challenges associated with detecting and safely dealing with CBRNE challenges.

We do this with a wrapper of programme and project management colleagues to ensure successful outcomes for clients wanting to design solutions which place safety and security as the highest priorities.

Our activities range from early engagements (feasibility studies and horizon scanning) through optimising people, process and technology security systems to lab demonstrators, full scale live trials in and procurement of biometric enabled entry/exit systems.

We are well versed in integrating equipment with operational processes, training, logistics, data, people, and organisational change from initial deployment through to disposal. We are experts in collecting, combining, and analysing CBRNE related data and using that to provide valuable insights for clients and the general public. We have a world class cloud software testing team with deep experience in safety systems and equipment in the Nuclear and CBRNE field. Further, we have expertise in Haptics and Robotics for remote handling of CBRNE materials.

Why us?

CBRNE handling and protection are vital areas of UK security. Cloud services presents new opportunities and vulnerabilities for protective services. AtkinsRéalis experience in this area comes from decades of work designing and assuring safety solutions.

We work closely with customers to ensure that their needs are met across all phases of the lifecycle and all lines of development, ensuring that deployed technology works in the context of your operations, people and environment.

We are at the cutting edge of new technologies from across the defence and security worlds, so we can bring this learning to your problems from being top-table partners in MODs Engineering Delivery Partner (EDP) and various other accelerators including JSARC and ACE.

We bring deep engineering experience across multiple disciplines in the CBRNE space this include:

- Software Safety Engineering
- CBRNE infrastructure development
- CBRNE remote handling
- CBRNE risk assessment
- CNI Design and assessment
- CBRNE solution design and delivery challenges and risks

We understand that creating any "future" system including CBRNE needs different thinking. This is why we have developed techniques and tools to allow rapid prototyping, lab demonstrators and experimentation in the real world. This has been proven in some of the most demanding projects in the world.