

# ALTEN IN NUCLEAR

World leader in Engineering & IT Services



ALTEN



**We are the ones who are building the world of tomorrow today.**

As a world leader in Engineering & IT Services, ALTEN supports the growth strategy of its clients in innovation, R&D & IT systems.

**€3,78** billion in revenue in 2022

**54,100** employees & 47,500 of whom are engineers

**6,500** clients worldwide

**30+** countries

Our business sectors:



## A KEY PARTNER

ALTEN is involved in all phases and areas of the product life cycle:



## SERVICE OFFERING

Five levels of commitment to meet clients' needs:

<b>Fixed-price project</b>	Fixed-price project with a commitment to results	<b>Commitment to results:</b> Control, quality, time, delay, fixed price
<b>Work packages</b>	Service contract with a commitment to results and performance	<b>Commitment to results:</b> Deliverables industrialization & productivity gains
<b>Service contract</b>	Service contract with a commitment of providing resources and to achieve performance goals	<b>Service level agreement:</b> Service level commitment & delegation of project management
<b>Globalization</b>	Gathering on a single contract covering several consulting projects	<b>Commitment of providing resources:</b> Teams of consultants delivering a wide range of expertises, thanks to a unique contract
<b>Consulting</b>	Commitment of providing resources	<b>Commitment of providing resources:</b> Delivery of specific & flexible expertise

We are home to those committed to having a positive impact.

**1,000+** nuclear specialists

## Our certifications

ISO 19443

ISO 9001

ISO 14001

ISO 27001

ISO 45001

CEFRI

MASE

EDF UTO

## Our main clients

EDF GROUPE

FRAMATOME

ORANO

CEA

GENERAL ELECTRIC

WESTINGHOUSE

ROLLS ROYCE

VATTENFALL

## Our main subsidiaries

**ATEXIS**  
AN ALTEN COMPANY

**Avenir  
Conseil**  
AN ALTEN COMPANY

**LINCOLN**  
AN ALTEN COMPANY

**MI-GSO | PCU3ED**  
AN ALTEN COMPANY

ALTEN operates across the entire **nuclear value chain** on an international scale, to support the progress towards **decarbonation** and the achievement of energy independence.

## ALTEN'S ADDED-VALUE



**Global partner**  
Over 5 continents



**Design Office**  
Packaged studies, end-to-end solutions, focused on time to market and right first time



**Multi-specialists**  
High capacity to fast ramp-up projects thanks to a strong footprint in Nuclear and our Nuclear Academy



**Digital**  
Improve engineering processes for performance

## ALTEN'S EXPERTISE

— With more than **1,000 consultants and specialists** in the nuclear sector, the ALTEN Group is recognized for its expertise as **a provider of technological and engineering** solutions. ALTEN has demonstrated its ability to rely on its critical size to support various business and project phases, its strong capacity for **projects ramp-up** and **technological synergies**.



### Studies & Design

- Front End Engineering, Workpackages
- Mechanical Engineering
- Civil Works
- Electrical Engineering, I&C
- Process & HVAC
- Safety & Radioprotection
- Compliance



### Construction & Commissioning

- Construction Supervision
- Commissioning & Start up
- HSE
- Operation process & Documents



### Supply chain & Contract management

- Procurement
- Contract & Claim Management
- Expediting
- Quality & Inspection



### Operations & Maintenance

- Revamping
- Spare parts Management
- Logistics
- Procedures & Methods



### Decommissioning & Fuel lifecycle

- Deconstruction Methods
- Waste Management & Transport
- Process Engineering for Nuclear Fuel
- Environment



### Digital Services

- Digital Transformation
- BIM & Digital Twin
- Data Engineering & Data visualisation
- Infra Cloud
- Cybersecurity



### Project Management

- Technical Project Management
- PMO
- Risk & Cost Management

## ALTEN AREAS OF INTERVENTION

— Our consultants bring their expertise in **4 key areas** of the sector:

Design  
and construction  
for new nuclear  
power plants

Operation  
& Maintenance  
on nuclear plants  
in operation

Waste  
management and  
decommissioning  
of nuclear facilities

Small reactors  
for nuclear  
propulsion,  
SMR or R&D



## ALTEN'S MAIN PROJECTS

### Anchorage Calculation Workpage

#### — New Nuclear Engineering

— ALTEN provides technical support for managing the design, calculation and monitoring of civil engineering and more specifically on anchorage systems for EPR projects:

- Anchorage calculation for EPR
- Development of specific anchorage calculation tools, user training
- Expertise in high-stress situations
- Monitoring deviations and non-conformities on site

### Management support for nuclear submarine programmes

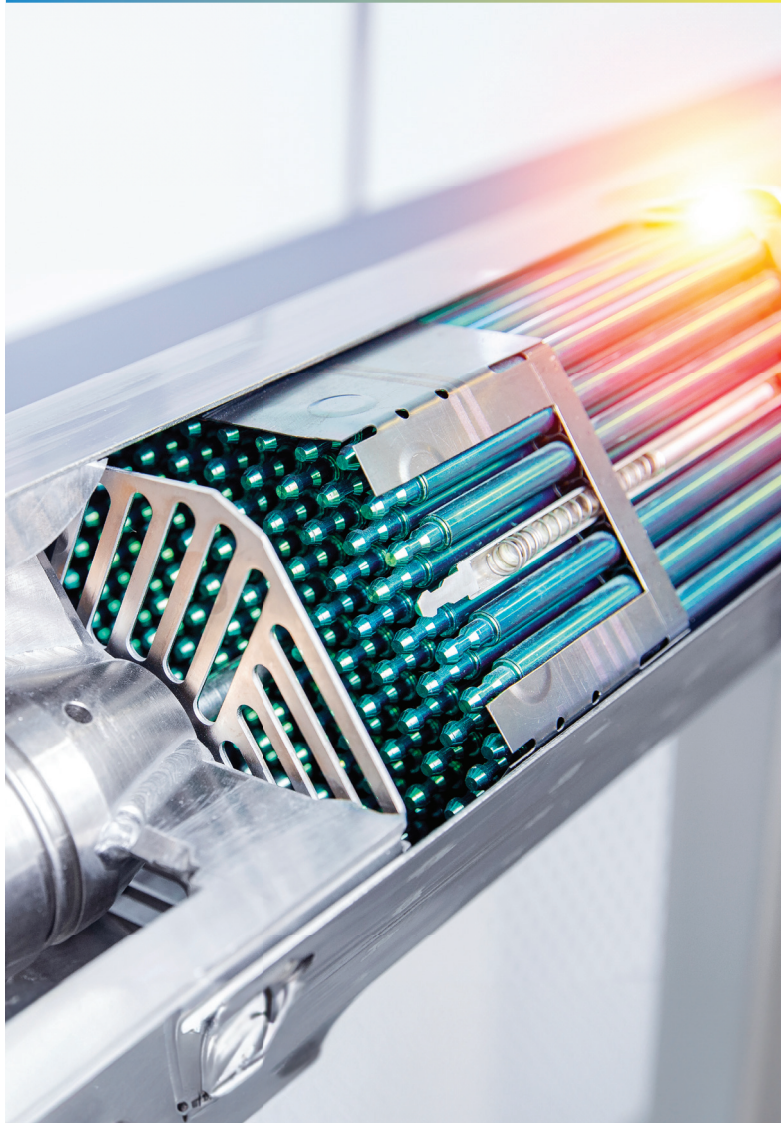
#### — Small Reactors R&D and Defence

- Project management, through to the full lifecycle of nuclear submarines, particularly during the design, assembly, and integration phases of the propulsion system into the nuclear boiler room and the engine room
- Studies and 3D modelling of the installation layout, layout management, work planning and monitoring
- On-site assembly and testing, monitoring equipment integration, updating digital mock-ups
- Preparation and monitoring of industrial contracts

### Commissioning and start-up on chemical facilities

#### — Nuclear fuel

- Updating test sheets and validation of batch supplier, test documents preparation
- Carrying out elementary tests
- Carrying out and interpreting tests in all areas: I&C, electricity, process, fluids, HVAC
- Testing inert utilities (water, nitrogen, compressed air, etc.) and active utilities (hydrofluoric acid, ammonia, uranium, etc.)
- Training and mentoring of operators in the commissioning and operation of new units



**TO LEARN MORE ABOUT OUR  
VISION, COMMITMENT, OPPORTUNITIES,  
VISIT OUR WEBSITE**

**alten.com**



**CONTACT US**  
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