

## EPR architect

The Edvance Technical Directorate (DTE) is the centre of expertise for technical integration jobs that can be exercised in the Engineering, Construction and Commissioning Department (DIT) or in the various EPR projects (Flamanville 3, Hinkley Point C, EPR2, etc.). There are 3 categories of job:

- Architects
- Product Owners
- Technical coordinators of various cross-cutting topics: data, tools, methods, referential, open points, modifications, configurations, interfaces, Operational Experience, ... which make up a technical directorate (Edvance or project). Managers of technical coordinators and the technical director are also included as coordinators.

Architects are seconded to a particular EPR project. They are responsible for designing a product.

The entire plant is broken down into products: unit, islands and then nodes (which can correspond to a complete building, a group of systems or other). There are therefore architects on variable perimeters.

- They are responsible for the technical performance of the product and for taking into account the requirements (regulations, technical references, ...) that apply to their product.
- They must meet the quality, cost and time needs identified by the project on their perimeter for the entire product life cycle, seeking the technical and economic optimum of the solution.
- They rely on a collaborative process that integrates all nuclear engineering jobs and capitalize on Operational Experience.

They are therefore involved in each phase of the project: offer, basic design, detailed design, construction, commissioning, and delivery of the product.

**The architect has a key role in nuclear engineering.**

**He (She) designs part of the plant and ensures for this purpose the technical integration of all engineering jobs on his/her perimeter.**

**He (She) is fully responsible for the performance of his/her product and the consideration of quality, cost, and time requirements until the delivery of the plant to the customer.**

## EPR product owner

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Product managers carry the product's asset vision. They develop, deliver projects, and maintain the standard of their product thanks to their expertise. This standard deals with:

- The different technical configurations (and maturity of the design)
- Deliverables that describe the product and justify compliance with the requirements
- Associated costs and delays
- Performance and margins
- The positioning of the product on the market and the suppliers involved

They have different versions of their off-the-shelf product which consists of a standard part (independent of the requirements of the projects), a variable part (with some variants to choose from according to the needs of the projects) and a part for which the design remains specific to each project.

Responsible of the standardization of the product and the good declination in the offers and projects, the product owners are not assigned to a particular project. They may be required to advise and support, if necessary, the architects who are their counterparts on a given project.

The entire plant is broken down into products: unit, islands and then nodes (which can correspond to a complete building, a group of systems or other). There are therefore product owners on variable perimeters.

**The product owner has a key role in the knowledge and the mastery of the nuclear industry. He (She) promotes replication to reduce the risks of quality, safety, cost, and time.**

**He (She) designs as standard a part of the plant and ensures for this purpose the technical integration of all engineering jobs on its perimeter.**

## EPR technical coordinator

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The technical coordinators intervene at different levels in the organisation when it is necessary to coordinate in project mode technical topics which are transversal to several skills.

They work on the instruction, the decision, or the assistance to the decision and potentially on the implementation of technical solutions to various problems in line with the requirements of safety, quality, costs, and deadlines.

To this end, they coordinate the resources, sometimes experts, identified by each business department to contribute to the resolution of these issues.

They can be attached to the Edvance technical directorate and intervene on cross-cutting topics in all projects. These topics include the different axes of engineering transformation/modernisation (standardisation of products and processes, rationalisation of requirements, implementation of new tools and PLM, deployment of knowledge management, etc.) as well as topics where the overall treatment provides added value (qualification for accidental conditions, capitalisation of operational experience, etc.).

They can also be dedicated to the technical directorate of a particular project and then contribute to the framing, performance, consistency, and compliance with the requirements of the design produced by the different teams of the project.

**The technical coordinator intervenes at different levels of the organisation to provide solutions to cross-functional technical issues and ensure the performance, consistency and conformity of the design and product deliverables.**

**He (She) coordinates the different contributors by competence in project mode.**