

## Middleware Developer

Contact person: [Katarina Sigerud](#)

Duration of the detachment: minimum 12 months, maximum 24 months

### Role summary

As a Computing Technical Engineer or Computing Engineer in the Software for Real-time & Communication (SRC) section of the BE-CO group, you will join the CMW team in charge of developing several centrally managed middleware services (name servers, gateways, brokers), critical for the correct monitoring and control of the accelerator equipment.

### Introduction

The SRC section of the BE-CO group provides software frameworks and tools (FESA, SILECS), communication infrastructure (CMW/RBAC/JMS), generic classes (CGFES, OASIS) and the accelerator timing (sequencing and synchronization) infrastructure.

### Functions

You will participate to the agile development process:

- Take charge of some of the development tasks and carry the analysis, design, implementation, documentation, and validation of those tasks;
- Contribute actively to the quality assurance practices in the team, applying the agreed software quality standards, participate in code reviews, develop unit and integration tests and document the completed tasks;
- Give support to the end-users on the various software products developed by the team (framework, APIs, services).

### Experience and Competencies

The technical competencies required for this post are:

- Excellent knowledge in modern software techniques and OO principles;
- Good knowledge of the Java and/or C++ language and relevant APIs and libraries;
- Good knowledge of SQL and general concepts of relational database modelling.

The following are considered as strong assets but not mandatory:

- Knowledge of the Python language;
- Knowledge of the Spring framework and Web technologies (HTTP, REST).

The behavioral competencies required for this post are:

- Achieving results: Drives work/projects along and sees them through to their conclusion; is able to set priorities and plan tasks with results in mind.
- Solving problems: Addresses complex problems by breaking them down into manageable components.
- Communicating effectively: Is able to discuss effectively with collaborators from the hardware design and operations teams.
- Working in teams: Works well in groups and readily fits into a team; participates fully and takes an active role in team activities.

The language competencies required for this post are:

- English and/or French oral comprehension