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**