Reference	IT-DB-82
Project/ Activity	Adoption of Kubernetes for Infor-EAM and CERN tools extensions

Duration

1 year, renewable (maximum 2 years)

Description

In the CERN IT department, the DB-DAR team provides critical, scalable and highly available applications services to many areas of CERN. The selected candidate will integrate the team and work with experts on the following elements:

Discover Kubernetes tools available at CERN IT: OpenStack and Magnum.

Study the application deployments process used in the IT-DB. Learn about specific Helm charts and configuration management (Python scripts, JSON tools).

Work with the developers and the IT-DB-DAR team. Develop solutions that enable applications deployment in Kubernetes.

Develop or customize existing Docker images. Integrate with IT monitoring infrastructure (Prometheus, Elasticsearch).

Prepare the technical documentation for the work execution;
Follow projects process in Jira, document the work done.

Participate in user support activities (ticket follow up, support rotas).

Profile

Bachelor degree in computer science or equivalent technical experience.
General knowledge of Linux systems. Experience with Bash scripting and development with Python.
Specific knowledge of Docker, container and Kubernetes technologies would be an asset.

Specific details

Work in IT-DB-DAR section. Help developer teams move their workload to Kubernetes clusters. Analyse the needs, develop necessary solutions based on Kubernetes technologies like Helm, Fluentd, Prometheus, ArgoCD.
Diplomacy and excellent team-working attitude.
Good working knowledge of English.