



The ESRF, the European Synchrotron, is an international research facility based in Grenoble, France. Thanks to high-level, innovative engineering and cutting-edge vision, the ESRF is recognised as one of the top research institutions worldwide, welcoming more than 6 500 scientists every year in fields such as biology, medicine, chemistry, earth and environmental sciences, cultural heritage, materials and surface science, and physics. The ESRF is supported by 21 countries and employs 600 staff. Several beamlines at the ESRF are operated independently by Collaborating Research Groups (CRGs). In this context, CEA and CNRS are operating 5 beamlines.

CEA is currently seeking to recruit a:

Python Software Engineer

2-year COD position

JOB DESCRIPTION

The BLISS team of 5 software engineers within the Beamline Control Unit (BCU) is responsible for the development of BLISS, the new ESRF experiments control system. During the 2019-2022 period, BLISS will grow from development up to integration on the 42 ESRF experimental stations (beamlines), and on the 5 F-CRG beamlines. To ensure the success of this phase of the project, CEA is looking for a full-stack Python developer to reinforce the BLISS team at ESRF in order to participate to the development of the BLISS code, and to deploy the code over the 5 F-CRG beamlines.

Being a proficient Python developer, you care about writing clean and reusable code and testing is an integral part of your every-day routine – take the challenge: the mission consists of joining effort to finalize BLISS development, and to participate in the deployment of the new system on beamlines.

Your responsibilities will range from designing, developing, writing automated tests, debugging, writing documentation and deploying BLISS with other members of the team. BLISS development is organised around Agile principles and follows the Scrum methodology, and we uses collaborative tools like gitlab.

You will find yourself in a fulfilling international and interdisciplinary environment. The final goal is to help scientists carrying out the first experiments with BLISS.

PROFILE, SKILLS AND EXPERIENCE

- Higher university degree (Master, MSc, DESS, Diplom, Diploma, Ingenieria Superior, Licenciatura, Laurea or equivalent) in Computing Science, Software Engineering or related area
- 3 to 5 years of professional experience in software development
- Very good, demonstrable Python programming skills
- Knowledge of asynchronous programming (gevent, asyncio, ...)
- A genuine interest in code quality, testing and software development methodologies in general would be highly appreciated
- Knowledge of the following technologies would be an asset: Docker, Conda, Ansible
- Working experience with git or a similar distributed revision control system
- Team player
- Technical writing skills

- Curiosity and good communication skills are required, so that you may interact with people of different domains such as physicists, electronics and software engineers.
- Proficiency in English (working language at the ESRF)

WORK CONDITIONS

The position is opened to work in the BLISS team at ESRF under a CEA work contract.
The annual gross salary will be within the range 33 – 44 k€.

Contact : Olivier Ulrich (ulrich@esrf.fr Tel:04 76 88 40 03)