

## Call for contribution of expertise

CERN invites collaborating institutes and universities to contribute with the expertise of their qualified employees to the activity described below.

*Start date:* asap

*Duration:* One year, possible extension to a maximum of up to 3 years.

*Project/Activity:* RIAK Replacement

### *Detailed description of Activity:*

The expert will join the IT-CM group. The main tasks will be the following:

- To implement the migration of the TEIGI application to alternative backend out of RIAK.
- To plan and execute the migration of TBAG and TELLME completely out of TEIGI to VAULT, a specialized secrets management system.
- To adapt the new service-based secrets management to the future clients' needs.
- To finalize the migration of ROGER to PostgreSQL.
- To extend the functionalities of the new web TEIGI interface to the needs of our clients.
- Contribute to other projects and services provided by the group in the domain of Large Installations System Administration, as well as Distributed Computing and DevOps methodology

*Profile:* Bachelor/Master degree in computer science

*Specific details:* Experience in Relational databases (PostgreSQL), Ruby, Python web development platforms. Knowledge of puppet is an advantage. The project requires knowledge of Python and Ruby programming languages in a Linux environment. Experience in configuration management systems, such as Puppet, to deploy the software, as well as in RESTful HTTP APIs would be a plus.

Experts will be expected to possess a good working knowledge of either English or French. Documentation shall be produced in English.

*Status at CERN:* Associated Member of the Personnel (Project Associate).

Conditions in accordance with CERN's Staff Rules and Regulations and Administrative Circular No. 11. Subsistence allowance is payable by CERN to cover the additional cost arising from the individual's (and, as applicable, their family's) stay in the local area while performing activities at CERN.

*Option:* Collaborating institutes and universities can propose to support the activity of the qualified employees participating in this "Call for contribution of expertise" with students or other employees. Their status and Subsistence allowance when applicable will be adapted to their relation with their institutions

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*Reference:* 2019\_Q2\_021