

## 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:* 01.08.2019

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

*Project/Activity:* Development and Support for the Database on Demand (DBoD) service

### *Detailed description of Activity:*

The Database on Demand service continues to grow and evolve to better serve the changing requirements of the different CERN user communities. On top of the traditionally provided RDBMS (MySQL and PostgreSQL) and Time Series databases (InfluxDB), there is an increasing interest to provide High Availability solutions within the service, as the number of critical databases running in DBoD increases.

The expert will be part of the Database On Demand team and participate on the daily operations. These include: service configuration management changes, database administration tasks (version upgrades, migrations, user consultancy, performance analysis and optimisation, monitoring) and the management of a variety of tools and platforms used by the service (Puppet for Configuration Management, ELK Stack, Grafana, Rundeck, OpenStack, OpenShift, EOS...). Additionally, the expert will contribute to the development and improvement of the different DB On Demand platform components as part of the service lifecycle to ensure continuity and integration with other CERN services.

*Profile:* Computer Engineer, with programming/software development skills, experience with Linux based systems and practical knowledge of scripting languages (Shell, Python, and Perl) and Angular web application framework.

Database administration knowledge (InfluxDB, PostgreSQL and MySQL) will be an advantage. Good working knowledge of either English or French.

*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\_011