

Call for contribution of expertise

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

Start date:
01/11/2017

Project/Activity:

Development of open-source advanced telephony solutions

Description of Project:

CERN is developing his own telephone exchange solution based around Asterisk and Kamailio. It currently supports SIP and Skype for Business but needs to be extended to support WebRTC as well as advanced services such as call centers.

Detailed description of Activity:

The University expert will collaborate with the team in the IT Department's Communication Systems Group responsible for all communication services in use at the laboratory.

He/she will contribute to the implementation of high-level services on top of the Asterisk infrastructure to support, for example, call centres for CERN's service desk and on-site Fire Brigade as well as WebRTC end-user solutions.

Profile:

Telecom or computer science engineer:

- DevOps profile with experience in Linux sysadmin, scripting languages, virtualization and agile infrastructure, source control management, database management and computer security.
- Good knowledge of the SIP protocol and media handling protocols (RTP, SDP, SRTP).
- VoIP (Voice over IP) large-scale deployments, preferably with open-source technologies (Asterisk, FreeSwitch, Kamailio, Opensips)

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.