



# Cloud Test Engineer

Project code	69
Supervisor	João Fernandes
Department	IT
<b>Title</b>	
Cloud Test Engineer	
<b>Description</b>	
<p>Join the CERN IT Department to be part of the European Open Science Cloud (EOSC) and to develop testing frameworks for hybrid cloud services that will support the computing needs of the LHC experiments.</p> <p>The OCRE and ARCHIVER projects will contract external consortia to provide and integrate public cloud services:</p> <p><a href="http://ocre-project.eu">http://ocre-project.eu</a></p> <p><a href="http://www.archiver-project.eu/">http://www.archiver-project.eu/</a></p> <p>The cloud service providers will be tested and qualified against a set of scientific workloads. The results obtained with both projects will form a set of best practices for future public cloud services procurements for scientific organisations in the context of the European Open Science Cloud (<a href="https://www.eosc-portal.eu/">https://www.eosc-portal.eu/</a>).</p> <p>Your main task will be to co-develop and deploy tests, consolidating and packaging test suites, in order to automate testing much as possible for future usage both for compute and storage.</p> <p>You will also generate test cases based on the established project requirements and application software (HTC workloads, analysis and preservation software, traditional HPC, Machine Learning and Deep Learning algorithms), set up the required cloud test beds (hardware, software and network), document test plans and procedures, effectively conduct evaluation and provide documented analysis of the test results.</p> <p>More information on the test suites can be found here: <a href="https://ocre-testsuite.readthedocs.io/en/latest/">https://ocre-testsuite.readthedocs.io/en/latest/</a></p> <p>Experience with public cloud providers, containerised applications and testing methodologies in cloud environments will be an advantage.</p>	



## Functions and Training Value

This position offers an excellent opportunity to obtain extensive expertise in the full spectrum of cloud technology, get familiarised with the current solutions implemented at several data-intensive scientific organisations, follow the computing models evolution and be hands-on with the latest R&D activity taking place, working in collaboration with major public cloud providers.

## Qualifications/Skills

- Strong testing skills: able to effectively and autonomously develop test plans with several heterogeneous test cases
- Knowledge and familiarity with container automated deployment (Kubernetes) and distributed data object stores
- Good knowledge on Linux/Unix system administration
- Working knowledge of automation tools (Terraform), software development tools (Git, JIRA, etc.) and scripting tools (Python or similar, Shell)
- Good knowledge of spoken and written English.
- Experience in Amazon Web Services, Microsoft Azure or Google Cloud is considered an added value.