

HIGHER EDUCATION COMMISSION

Higher Education Development in Pakistan (HEDP)

Terms of Reference (TORs)

Cloud Engineer

Job Title:	Cloud Engineer
Category:	Project Management
Duty Station:	Islamabad
Type of Contract:	Contractual Appointment
Expected Starting Date:	September 2022
Duration of Assignment:	One year extendable till the completion of the project, based on satisfactory performance.
No. of Position(s):	One (01)

1. BACKGROUND:

Higher Education Commission (HEC) is embarking upon the Higher Education Development in Pakistan (HEDP) Project funded by the World Bank. The project aims, among other objectives, to strengthen governance in the higher education sector of Pakistan.

Given the cross-cutting and transformative nature of information technology, HEDP has several activities that aim to leverage IT to improve teaching, learning and research environment in Pakistan. Some of the key components are as follows: setting up of high-performance computation cloud; putting into place a block chain and identity access management system; provisioning of centralized Learning Management System (LMS) to all HEIs which can be integrated with the Student Information System and launching a massive open online courses (MOOCs) platform.

HEDP is looking for a detail-oriented professional, proficient with cloud technologies & infrastructure. The cloud Engineer will be responsible for building, monitoring, deploying, and supporting applications in the cloud.

2. PROJECT DESCRIPTION:

The project supports the implementation of a subset of activities from the Higher Education Commission's (HEC's) Vision 2025, which is in line with the broader development framework for Pakistan as envisaged in the Government's Vision 2025. The project will be implemented over a five-year period of 2019/20 – 2023/24.

In essence the objectives of the project are to support research excellence in strategic sectors of the economy, improve teaching and learning, and strengthening governance, in the higher education sector. More information on HEDP can be found here: <http://projects.worldbank.org/P161386?lang=en>.

3. CORE RESPONSIBILITIES:

The Cloud Engineer will be a part of the Project Coordination Unit (PCU) for implementation of Component 3 of the project, and specifically work for the anticipated HEC Cloud to be designed, procured & configured under the project. She/ He will report to Project Coordinator ,HEDP .

Job Responsibilities:

- Primary responsibilities include developing and implementing policies for the use and provisioning of cloud services, managing requests for new technology, establishing a secure cloud environment, and ensuring appropriate availability of services through the cloud setup.
- Work in collaboration on the design and model of cloud set up with HEC IT Division and solution providers/vendors. Hosting of the multiple systems like Enterprise Resource Planning (ERP), Student Life Cycle (SLC), Massive Open Online Courses (MOOCs), Blockchain, Learning Management System (LMS) will be done on cloud set up.

- Prepare storage policies depending on the system's needs, type and volume of the data; which will cover these aspects as accessibility, reliability, data backup, recovery, and fast deployment.
- Work with multiple stakeholders under HEDP activities for their infrastructure and computation services requirement, which are intended to be deployed on HEC's cloud setup.
- Develop technical specifications for the procurement of cloud hardware (ERP/SCLC, LMS, Block Chain, Data Warehouse , MOOCs and ERP Upgradation) and software.
- Analyze and prepare the services models for HEC's cloud setup
- Assess the organization technology infrastructure and work on the migration of existing application (like MOOCs, HEDR) to the cloud setup with HEC IT and vendor.

Key Skills and Competencies:

- Strong Cloud computing skills.
- Hands on experience on cloud platform and understanding of cloud resource management.
- Familiarity with other market-based cloud service providers (AWS, Microsoft Azure, Openstack, GCP).
- Comprehensive knowledge of using Application Programming Interfaces (APIs) in the cloud for building, linking and integration workloads.
- Have the knowledge of networking, network management and secure connectivity across resources (or it may be across clouds).
- Skilled resource on the Development, Operations, and integration
- Skilled for access management pertaining to cloud security and accessibility.
- Excellent communication and organizational skills, and the ability to stay focused on completing tasks and meeting goals within a busy workspace.

MINIMUM QUALIFICATIONS:

Education:-

- At least sixteen years of education (Master's degree would be a plus) specializing in ICT/Engineering/Computer Science/Information Management or equivalent.
- Certification related to cloud technologies would be a plus.

Work Experience

- 8+ years practical relevant experience as a Cloud Engineer role or related position.

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