

HIGHER EDUCATION COMMISSION
Higher Education Development in Pakistan (HEDP)

Job Description

Development Engineer (High Performance Computing)

Job Title:	Development Engineer (High Performance Computing)
Category:	Project Management
Duty Station:	Islamabad
Type of Contract:	Contractual Appointment
Duration of Assignment:	Till the completion of the project, based on satisfactory performance
No. of Position(s):	Two

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 the teaching, learning and research environment in Pakistan.

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 strengthen governance, in the higher education sector. More information on HEDP can be found here: <http://projects.worldbank.org/P161386?lang=en>.

CORE RESPONSIBILITIES:

Since the emergence of new technologies like the Internet of Things (IoT), artificial intelligence (AI), and 3-D imaging evolve, the size and amount of data that organizations have to work with are growing exponentially.

High-Performance Computing (HPC) is used to work through a massive amount of data in short time to simulate, predict or trend analysis and many more. Core components for any HPC environment are Compute, Network, and Storage. This role is for those who are well aware of these components and keen to learn and shape the future.

HEDP is keen to develop their own facility that HEIs can utilize for the purpose of their education and research needs. The individual for this role will work with Program Tech Specialist to achieve goal regarding this technology stack

Job Responsibilities:

- Assist Tech Specialist in design activities
- Work with vendor and with HEC IT staff during to setup the environment
- Assist in acceptance testing of the platform
- Assist in Setting up processes for HEIs to access and utilize this facility
- Provide support to HEIs to ensure they can get maximum utilization and benefit from the platform
- Develop training material for end users
- Keep the environment healthy and tidy for ready to use all the time.
- Ensure the technical standards and guidelines are followed all the time
- Assist in smooth handover to HEC IT operations.
- Improve the quality of service for end users while working with system engineers.

Key Skills and Competencies:

- Experience with enterprise-level storage, network, and compute environments.
- Hands-on experience with the cloud would be a plus
- Any certification around cloud, storage, compute, network would be a plus
- Good understanding of the different type of cloud framework would be nice.
- Good understanding of clustered environment would be added advantage.

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.

Work Experience

- 5+ years of experience in the field of IT and other related areas. Preference will be given to individuals who have worked on HPC in any industry.

