

# NATIONAL CENTRE FOR PHYSICS ISLAMABAD

## SITUATION VACANT

Centre of Excellence in Artificial Intelligence Technology (CoE AITeC), Islamabad requires individuals for the following posts on **Contract Basis**.

Ser.	Name and Scale of Post	Qualification, Experience & Knowledge / Skills
1.	<b>General Manager (Artificial Intelligence) (BPS-19/Equivalent)</b>	<p><b>I. ENGINEERS</b></p> <ul style="list-style-type: none"><li>a) BE/BSc Engg (Electrical/Electronics/Telecommunication/Mechatronics) with 1<sup>st</sup> Division alongwith 13 years experience in the relevant field <b>OR</b></li><li>b) MS/MSc Engg (Electrical/Electronics/Telecommunication/Systems/Mechatronics) with 1st Division alongwith 11 years experience in the relevant field <b>OR</b></li><li>c) PhD Engg (Electrical/Electronics/Computer/Software/Telecommunication/Mechatronics) with research specialization in Artificial Intelligence alongwith 8 years experience in the relevant field</li></ul> <p><b>II. SCIENTISTS</b></p> <ul style="list-style-type: none"><li>a) BS/MSc (16 years) (Artificial Intelligence/Electronics/Mathematics with specialization in Computation) with 1st Division alongwith 13 years experience in the relevant field <b>OR</b></li><li>b) PhD (Electronics/Mathematics with specialization in Computation) with research specialization in Artificial Intelligence alongwith 8 years experience in the relevant field</li></ul> <p><b>III. IT OFFICERS</b></p> <ul style="list-style-type: none"><li>a) BCS/BIT (04 years degree) with 1st Division alongwith 13 years experience in the relevant field <b>OR</b></li><li>b) MCS/MIT with 1<sup>st</sup> Division after 02 years Bachelor Degree alongwith 13 years experience in the relevant field <b>OR</b></li><li>c) BE/ BSc Engg (Computer / IT) with 1<sup>st</sup> Division alongwith 13 years experience in the relevant field <b>OR</b></li><li>d) MSc Engg (Computer / IT) with 1<sup>st</sup> Division alongwith 11 years experience in the relevant field <b>OR</b></li><li>e) PhD (Computer Science/Computer Engg/Software Engg/IT) alongwith 8 years experience in the relevant field</li></ul>
2.	<b>General Manager (Quality Management Systems) (BPS-19/Equivalent)</b>	<p><b>I. ENGINEERS</b></p> <ul style="list-style-type: none"><li>a) BE /B.Sc (Engg) (Electrical/Electronics/Mechatronics) with 1<sup>st</sup> Div &amp; 13 years experience in relevant field and preferably MS (Quality Management / Engineering Management / Project Management) <b>OR</b></li><li>b) MS/MSc Engg (Electrical/Electronics/Mechatronics) (1<sup>st</sup> Div) with specialization in Quality Management / Engineering Management alongwith 11 years experience in relevant field <b>OR</b></li><li>c) PhD (Quality Management / Engineering Management) after BE/B.Sc Engg (Electrical/Electronics/Mechatronics) alongwith 8 years experience in relevant field</li></ul> <p><b>II. IT OFFICERS</b></p> <ul style="list-style-type: none"><li>a) BCS / BIT (04 Years Degree) with 1<sup>st</sup> Div &amp; 13 years experience in relevant field and preferably MS (Quality Management / Engineering Management / Project Management) <b>OR</b></li></ul>

		<p>b) MCS / MIT with 1<sup>st</sup> Div after 2 years of Bachelor Degree with 13 years experience in relevant field and preferably MS (Quality Management / Engineering Management / Project Management) <b>OR</b></p> <p>c) BE / BSc (Engg) (Computer/IT) with 1<sup>st</sup> Div &amp; 13 years experience in relevant field and preferably MS (Quality Management / Engineering Management / Project Management) <b>OR</b></p> <p>d) PhD (Computer / IT) alongwith 8 years experience in the relevant field</p>
3.	<b>Manager (Artificial Intelligence) (BPS-18/Equivalent)</b>	<p><b>I. ENGINEERS</b></p> <p>a) BE/B.Sc Engg (Electrical/Electronics/Telecommunication/Mechatronics) with 1<sup>st</sup> Division alongwith 06 years experience in relevant field <b>OR</b></p> <p>b) MS/MSc Engg (Electrical/Electronics/Telecommunication/Systems/Mechatronics) with 1<sup>st</sup> Division alongwith 4 years experience in relevant field <b>OR</b></p> <p>c) PhD Engg (Electrical/Electronics/Telecommunication/Mechatronics) alongwith research specialization in Artificial Intelligence</p> <p><b>II. SCIENTISTS</b></p> <p>a) BS/MSc (16 years) (Artificial Intelligence/Electronics/Mathematics with specialization in Computation) with 1st Division alongwith 06 years experience in the relevant field <b>OR</b></p> <p>b) PhD (Electronics/Mathematics with specialization in Computation) and research specialization in Artificial Intelligence</p> <p><b>III. IT OFFICERS</b></p> <p>a) BCS/BIT (04 years degree) with 1st Division alongwith 6 years experience in the relevant field <b>OR</b></p> <p>b) MCS/MIT with 1st Division after 02 years Bachelor Degree alongwith 6 years experience in the relevant field <b>OR</b></p> <p>c) BE/ BSc Engg (Computer / IT) with 1<sup>st</sup> Division alongwith 06 years experience in the relevant field <b>OR</b></p> <p>d) MSc Engg (Computer / IT) with 1<sup>st</sup> Division alongwith 4 years experience in the relevant field <b>OR</b></p> <p>e) PhD Engg (Computer / IT)</p>
4.	<b>Manager-IT (BPS-18/Equivalent)</b>	<p><b>IT OFFICERS</b></p> <p>a) BCS/BIT (04 Years Degree with 1st Div) &amp; 06 years experience in relevant field <b>OR</b></p> <p>b) MCS / MIT (1st Div) after 02 years Bachelor Degree with 06 years experience in relevant field <b>OR</b></p> <p>c) BE / BSc (Engg) (Computer/IT) with 1st Div &amp; 06 years experience in relevant field <b>OR</b></p> <p>d) MSc Engg (Computer / IT) with 1st Div &amp; 04 years experience in relevant field <b>OR</b></p> <p>e) Ph.D Engg (Computer / IT)</p> <p><b>PREFERRED ADDITIONAL REQUIREMENTS</b></p> <p><b>Required Knowledge/Skill Areas</b></p> <ul style="list-style-type: none"> <li>• Good understanding of TCP/IP &amp; OSI model.</li> <li>• Should be able to configure Layer2 and Layer3 network devices such as routers, firewalls, switches.</li> <li>• Good knowledge of Firewalls, VPN, Network Access Control Systems &amp; Network Virtualization</li> <li>• In-depth understanding of routing protocols, QoS, and network traffic engineering</li> <li>• Knowledge of securing computing infrastructure through enforcement of cyber security policies.</li> </ul>

		<ul style="list-style-type: none"> <li>• Should be able to produce professional diagrams and documentation for systems/network and operational best practices, standards, policies and procedures.</li> <li>• Should be able to monitor network devices &amp; servers through monitoring tools such as Solarwinds, Netflow Analyzer, Grafana, Zabbix.</li> <li>• Excellent scripting skills in Bash, Python, PowerShell</li> <li>• Strong knowledge of Cloud and Virtualization technologies such as Openstack, VMware ESXi, KVM</li> <li>• Knowledge of job schedulers/ workload managers such as SLURM, HTCondor is a plus</li> <li>• Familiarity with data handling and processing platforms such as Spark, Hadoop, Storm.</li> <li>• Working knowledge of one or more high-level programming languages such as C++, Python.</li> <li>• Familiarity with application services management such as DNS, DHCP, NFS, Apache Web Server, Squid, Microsoft Exchange, Radius, Samba, SVN, GIT</li> <li>• Strong troubleshooting and problem solving skills.</li> </ul>
5.	<p><b>Assistant Manager (Artificial Intelligence) (BPS-17/Equivalent)</b></p>	<p><b>I. ENGINEERS</b></p> <p>a) BE/BSc Engg (Electrical/Electronics/Telecommunication/Mechatronics) with 1<sup>st</sup> Division <b>OR</b>  b) MS/MSc Engg (Electrical/Electronics/ Telecommunication/Systems/Mechatronics) with 1<sup>st</sup> Division</p> <p><b>II. SCIENTISTS</b></p> <p>a) BS/MSc (16 years) (Artificial Intelligence/ Electronics/ Mathematics with specialization in Computation) with 1<sup>st</sup> Division and preferably MS/MSc (18 years) (Artificial Intelligence/Electronics/Mathematics with specialization in Computation)</p> <p><b>III. IT OFFICERS</b></p> <p>a) BCS/BIT/BSE (04 years degree) (Computer Science/Software Engineering) with 1<sup>st</sup> Division <b>OR</b>  b) MCS/MIT with 1st Division After 02 years of Bachelor Degree in Computer Science <b>OR</b>  c) BE/ BSc Engg (Computer / IT) with 1<sup>st</sup> Division <b>OR</b>  d) MCS with 1<sup>st</sup> Division after 04 years of BCS/MSc Engg (18 years) (Computer / IT) with 1<sup>st</sup> Division</p>
6.	<p><b>Assistant Manager (Quality Management Systems) (BPS-17/Equivalent)</b></p>	<p><b>I. ENGINEERS</b></p> <p>a) BE /B.Sc (Engg) (1<sup>st</sup> Div) in Electrical/Electronics/Mechatronics and preferably MS (Quality Management / Engineering Management / Project Management) <b>OR</b>  b) MS/MSc Engg (1<sup>st</sup> Div) in Electrical/Electronics/Mechatronics with specialization in Quality Management / Engineering Management</p> <p><b>II. IT OFFICERS</b></p> <p>a) BCS / BIT/ BSE (04 Years Degree) (1<sup>st</sup> Div) or Equivalent and preferably MS (Quality Management / Engineering Management / Project Management) <b>OR</b></p>

		<p>b) MCS/MIT with 1st Div after 02 years of Bachelor Degree and preferably MS (Quality Management / Engineering Management / Project Management) <b>OR</b></p> <p>c) MCS after 04 years BCS/MSc Engg (Computer / IT) with 1st Div</p> <p><b><u>PREFERRED ADDITIONAL REQUIREMENTS (KNOWLEDGE/SKILL AREAS)</u></b></p> <ul style="list-style-type: none"> <li>• Any Diploma/Certification in Quality Management/Lead Auditor Course (LAC) 9001-2015 etc.</li> <li>• Quality control/Quality Assurance/Quality Management System.</li> <li>• Quality tools like SPC, Six Sigma etc.</li> <li>• Expertise in MS Office (specially in MS Excel and MS Project).</li> <li>• Strong interpersonal, communication, presentation and team management skills.</li> </ul>
7.	<b>Assistant Manager (AI Liaison Officer) (BPS-17/Equivalent)</b>	<p><b><u>I. ENGINEERS</u></b></p> <p>a) BE /B.Sc (Engg) (1<sup>st</sup> Div) in Electrical/Electronics/Mechatronics with experience in Artificial Intelligence related fields <b>OR</b></p> <p>b) MS/MSc (Engg) with 1<sup>st</sup> Div in Electrical/Electronics/Mechatronics with specialization in Artificial Intelligence</p> <p><b><u>II. IT OFFICERS</u></b></p> <p>a) BCS / BIT/ BSE (04 Years Degree) (1<sup>st</sup> Div) or Equivalent <b>OR</b></p> <p>b) MCS/MIT with 1st Div after 02 years of Bachelor Degree <b>OR</b></p> <p>c) BE / BSc (Engg) (Computer/IT) with 1<sup>st</sup> Div <b>OR</b></p> <p>d) MCS after 04 years BCS/MSc Engg (Computer / IT) with 1st Div</p>
8.	<b>AM-IT (Data Management) (BPS-17/Equivalent)</b>	<p><b><u>IT OFFICERS</u></b></p> <p>a. BCS / BIT/ BSE (04 Years Degree) (1<sup>st</sup> Div) or Equivalent <b>OR</b></p> <p>b. MCS/MIT with 1st Div after 02 years of Bachelor Degree <b>OR</b></p> <p>c. BE / BSc (Engg) (Computer/IT) with 1<sup>st</sup> Div <b>OR</b></p> <p>d. MCS after 04 years BCS/MSc Engg (Computer / IT) with 1st Div</p> <p><b><u>PREFERRED ADDITIONAL REQUIREMENTS</u></b></p> <p><b><u>Required Knowledge/Skill Areas</u></b></p> <ul style="list-style-type: none"> <li>• Excellent knowledge of database systems, data warehousing.</li> <li>• Good understanding of data management and governance.</li> <li>• Familiarity with data handling and processing platforms such as Spark, Hadoop, Storm.</li> <li>• Knowledge of protecting databases against security breaches and data loss.</li> <li>• Familiarity with data preprocessing procedures and methods.</li> <li>• Working knowledge of Machine learning algorithms is a plus.</li> <li>• Should be able to devise and enforce policies for data storage, retrieval, access, and monitoring.</li> <li>• Troubleshooting and problem solving skills.</li> </ul>

9.	<p style="text-align: center;"><b>AM-IT (Web Development) (BPS-17/Equivalent)</b></p>	<p><b><u>IT OFFICERS</u></b></p> <p>a. BCS / BIT/ BSE (04 Years Degree) (1<sup>st</sup> Div) or Equivalent <b>OR</b>  b. MCS/MIT with 1st Div after 02 years of Bachelor Degree <b>OR</b>  c. BE / BSc (Engg) (Computer/IT) with 1<sup>st</sup> Div <b>OR</b>  d. MCS after 04 years BCS/MSc Engg (Computer / IT) with 1st Div</p> <p><b><u>PREFERRED ADDITIONAL REQUIREMENTS</u></b></p> <p><b><u>Required Knowledge/Skill Areas</u></b></p> <ul style="list-style-type: none"> <li>• Excellent programming skills and in-depth knowledge of modern HTML/CSS</li> <li>• Well versed with at least one of the following programming languages: PHP, ASP.NET, Python JavaScript or Ruby on Rails</li> <li>• Solid understanding of how web applications work including security, session management, and best development practices</li> <li>• Good knowledge of relational database systems and web application development</li> <li>• Should be well versed with Browser Devtools</li> <li>• Should be able to keep track of development through version control</li> <li>• Hands-on experience with network diagnostics, network analytics tools will be a plus</li> <li>• Basic knowledge of search engine optimization process</li> <li>• Troubleshooting and creative problem solving skills</li> <li>• Ability to learn rapidly and master diverse web technologies and techniques</li> </ul>
10	<p style="text-align: center;"><b>Tech-I / Junior Chargeman / Computer Tech (BPS-9/10/Equivalent)</b></p>	<p>03 years Diploma of Associate Engineer (Electronics/Electrical/Computer Technology) (1<sup>st</sup> Div) from recognized Polytechnic Institute</p>
11	<p style="text-align: center;"><b>Tech-IV (BPS-1/4/Equivalent)</b></p>	<p>Matric with Science with minimum 2<sup>nd</sup> Division with at least 50% marks.</p>
<p><b><u>PREFERRED ADDITIONAL REQUIREMENTS FOR SERIAL NO 1, 3 &amp; 5</u></b></p> <ul style="list-style-type: none"> <li>• Expertise and experience in Artificial Intelligence (AI) and allied fields/tools including Deep Learning, Reinforcement Learning, Natural Language Processing (NLP), Computer Vision, Data Science, Predictive Analytics etc.</li> <li>• Additional certification/diploma in AI and allied fields and tools</li> <li>• Research projects and publications in the AI related areas</li> </ul> <p><b><u>ROLES AND RESPONSIBILITIES FOR SERIAL NO 1, 3 &amp; 5</u></b></p> <p>Development of state-of-the-art AI products and solutions following the complete life cycle of the AI-based projects including Requirement Analysis, Problem Identification &amp; Categorization, Design, Development, Verification &amp; Validation and Deployment.</p>		

## IMPORTANT INSTRUCTIONS

- 3rd Division is not acceptable in the entire academic career.
- Preferably first class academic career, however one second division (50% marks) is allowed.
- First class degree means a minimum of 60% marks for annual system or CGPA 2.5 out of 4.0 for semester system and second class means a minimum of 50 % marks for annual system or CGPA 2.0-2.49 out of 4.0 for semester system.
- Maximum age limit on closing date of advertisement is 35 years. However, relaxation in age may be given as per rules.
- Candidates must have obtained educational degrees from the institutions / universities duly recognized by Higher Education Commission and registered with Pakistan Engineering Council (For Engineering Degree).
- Experience will only be considered if acquired after minimum prescribed qualification against each post.
- Candidates already employed in Govt. /Semi Govt. Organizations must provide No Objection Certificate (NOC) from their employers at the time of Test/Interview.
- The responsibility of correctness of the data will rest purely on the candidate. Only the candidates who fulfill prescribed eligibility criteria may apply. Candidature of those who do not fulfill the requirements/provide wrong/fake data and apply for any of the above positions may be cancelled at any stage during the process of selection or subsequently and no claim whatsoever will be acceptable during and after selection.
- Selected candidates may be considered for advance increments & ante-date seniority as per rules.
- No TA/DA will be admissible for appearing in test/interview.
- Individual having dual nationality or married to foreign national is not eligible to apply.
- Candidates must apply ONLINE only. Applications submitted in HARD FORM will not be entertained.
- **Fulfilling the selection criteria does not guarantee short-listing or eligibility for selection. Candidates who are most qualified and experienced would be shortlisted for tests/interview.**
- Individuals having desired qualification/experience given above should only apply through online NCP Job Portal [http://www.ncp.edu.pk:8080/NCP\\_SIMS\\_AI/login.jsp](http://www.ncp.edu.pk:8080/NCP_SIMS_AI/login.jsp) within 15 days of this advertisement. In case of any query email at [hr@ncp.edu.pk](mailto:hr@ncp.edu.pk)

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