

NATIONAL CENTRE FOR PHYSICS SITUATIONS VACANT

National Centre for Physics, Islamabad requires individuals for the following posts purely on **contract basis**.

S. #	Name and Scale of Post	Qualification & Experience in the Relevant Field	Preferable Skills / Expertise / Experience	Technology
1	<u>Manager (Technical) (BPS-18 / Equivalent)</u>	a) PhD (Material Science) OR PhD Engg (Metallurgy)	a) Adequate experience / knowledge of heat treatment of metals, mechanisms of laser-metal interactions, powder metallurgy etc.	Additive Manufacturing and 3D Printing & Scanning
		b) PhD Engg (Electrical / Electronics). OR PhD Physics.	b) Laser development. OR Detector development and readout systems, Monte Carlo / modelling and detector simulations. OR Quantum information & computation. OR Ion-solid interaction & Instrumentation of accelerators.	Physics
		c) PhD Engg (Computer / IT). OR PhD (Computer / IT). OR BCS / BIT (04 years 'degree) with 1 st Division along with 6 years' experience in the relevant field. OR BE / BSc Engg (Computer / IT) with 1 st Division along with 06 years' experience in the relevant field. OR MSc Engg (Computer / IT) with 1 st Division along with 4 years' experience in the relevant field.	c) Cyber security (policies enforcement / auditing, risk assessment, pen testing, vulnerability assessment and fixing. OR Digital transformation of organization including automation of processes/ ERP solutions. OR Data centre design and operations, cyber security (network security, cloud security). OR Data management (data lake, storage platforms, disaster recovery). OR Metaverse / extended reality (Multimedia content generation/3D modeling, AR/VR development).	Information Technology
2	<u>Assistant Manager (Technical) (BPS-17 / Equivalent)</u>	a) BE / BSc Engg Electrical / Electronics) with 1 st Division. b) BS / MSc (Physics) with 1 st Division. c) BS / MSc (Chemistry) with 1 st Division. d) BS / MSc Mathematics (1 st Division)	a) Digital / analog design. OR Automation. OR Instrumentational and control. OR Embedded systems. OR Design & development of electrical systems. b) Laser physics. OR Computation physics. OR Ion beam physics. OR Quantum computing. OR General relativity and cosmology. OR Material science. OR Experiment and theoretical high energy physics. OR Medical physics. c) Materials synthesis and characterization. d) Computational mathematics, numerical methods.	Physics

	<p>a) BE / BSc Engg (Mechatronics) with 1st Division. OR</p> <p>b) BE / B.Sc Engg (Mechanical) with 1st Division. OR</p> <p>c) BE / B.Sc Engg (Electrical) with 1st Division. OR</p> <p>d) BS / MSc Physics (1st Division).</p>	<p>a) Vacuum science & technology, experience of industrial system troubleshooting. OR</p> <p>b) Specialization in quality management system and implementation and training in QMS and safety. OR Pro-E. solid works, inventor, CATIA, Ansys. Industrial system manufacturing and maintenance experience. OR</p> <p>c) Control panel designing and maintenance of vacuum systems. OR</p> <p>d) Vacuum science and technology.</p>	Vacuum Science and Technology
	<p>a) BE / BSc Engg (Electrical / Electronics) with 1st Division. OR</p> <p>MS / MSc Engg (Electrical / Electronics / Systems) with 1st Division. OR</p> <p>BS/MSc (16 years) (Artificial Intelligence / Electronics) with 1st Division. OR</p> <p>MS / MPhil (18 years) (Artificial Intelligence / Electronics) with 1st Division. OR</p> <p>BCS / BIT / BSE (04 years' degree) (computer science / software engg) with 1st Division. OR</p> <p>BE / BSc Engg (Computer / IT) with 1st Division. OR</p> <p>MCS with 1st Division after 04 years of BCS / MSc Engg (18 years) (Computer / IT) with 1st Division.</p>	<p>a) Courses in optimization techniques and computer languages etc. Strong background and knowledge of the field of basic degree. 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. Additional certification /diploma in AI and allied fields and tools.</p>	Artificial Intelligence Technology
	<p>a) BE / B.Sc Engg (Mechanical) with 1st Division. OR</p> <p>b) BE / B.SC Engg (Mechatronics) with 1st Division. OR</p> <p>c) BS / MSc (Physics) (1st Division). OR</p> <p>d) BS / MSc (Chemistry) (1st Division).</p>	<p>a) Must have adequate experience in CAD modeling software i.e. Solid works, Creo, Catia etc. OR Must be familiar with machining and advance manufacturing technologies.</p> <p>b) Must be familiar with instrumentation, machine programming and control system.</p> <p>c) Must be familiar with radiographic techniques for material characterization.</p> <p>d) Synthesis and characterization of polymers (especially thermoplastics and photopolymers).</p>	Additive Manufacturing and 3D Printing & Scanning
	<p>a) BCS / BIT / BSE (04 years' degree) (computer science/software Engg) with 1st Division. OR</p> <p>BE / BSc Engg (Computer / IT) with 1st Division. OR</p> <p>MCS with 1st Division after 04 years of BCS / MSc Engg (18 years) (Computer / IT) with 1st Division.</p>	<p>a) Cyber security, software development, metaverse / extended reality, cloud computing and virtualization (Linux) data management, campus data network, cloud security.</p>	Information Technology

3	<u>Tech-I / Junior Chargeman / CO / CT (BPS-9 / 10 / Equivalent)</u>	a) 03 years Diploma of Associate Engineer (Instrumentation) with 1 st Division from recognized Polytechnic Institute. OR	a) Controllers, transmitters, sensors, engr systems, relevant software. b) Technical drawings, 3D modeling, machining, fabrication, maintenance services.	Vacuum science and technology
		b) 03 years Diploma of Associate Engineer (Mechanical) with 1 st Division from recognized Polytechnic Institute.		
		c) 03 years Diploma of Associate Engineer (Auto & Diesel) with 1st Division from recognized Polytechnic Institute. OR	c) Knowledge & practical experience of diesel/ petrol engines including their components, functions and maintenance requirements. Knowledge of fuel systems, cooling systems, lubrication systems and emission control systems. Ability to diagnose and troubleshoot issues. Good understanding with troubleshooting skills of electrical systems of all types of vehicles.	Mechanical Transport
		d) Retired Hav/equivalent (VM) with Matric from Pak Army / Navy / Air Force.	d) Retired persons with MT trade preferably from Mechanical Infantry, Artillery, Air Defense, Armour, Engineering and Transport until age upto 50 years.	
		e) 03 years Diploma of Associate Engineer (Electronics / Information and Communication technology) with 1st Division from recognized Polytechnic Institute.	e) Nil	Artificial Intelligence Technology
		f) 03 years Diploma of Associate Engineer (Electrical / Telecom / Electronics / Computer) with 1st Division from recognized Polytechnic Institute.	f) Telecom and data network, NOC / SOC, data centre operations. Six months' experience in computer applications.	Information Technology
4	<u>Tech-II (BPS-7/8 Equivalent)</u>	g) 03 years Diploma of Associate Engineer (Mechanical) with 1st Division from recognized Polytechnic Institute. OR	g) Nil	Additive Manufacturing and 3D Printing & Scanning
		h) 03 years Diploma of Associate Engineer (Electronics) with 1st Division from recognized Polytechnic Institute.	h) Nil	
		a) 03 years Diploma of Associate Engineer (Mechanical) with 1st Division from recognized Polytechnic Institute. OR Matric with Science (1st Division) with 02 years' apprenticeship / certificate in	a) Hands on experience on milling, turning and drilling machines.	Additive Manufacturing and 3D Printing & Scanning

		Mechanical along with 02 years' experience as fitter.		
		b) 03 years Diploma of Associate Engineer (Electrical) with 1st Division from recognized Polytechnic Institute. OR Matric with Science (1 st Division) with 02 years' apprenticeship / certificate in Electrical along with 02 years' experience as electrical technician.	b) Repair and maintenance as electrician.	Technical Services
5	<u>Tech-III (BPS-5/6/Equivalent)</u>	a) Matric with Science with minimum 2 nd Division with at least 50% marks along with 6 years' experience as Plumber / HVAC technician. b) Matric with Science with minimum 2 nd Division with at least 50% marks with 01-year technical course technical/drafting) along with 5 years' experience as Plumber/HVAC technician.	a) Hands on experience of repair and maintenance of all types of Air conditioners / plumbing fixtures. b) Hands on experience of repair and maintenance of all types of air conditioners / plumbing fixtures.	Technical Services
6	<u>Lab Attd / Tech-IV (BPS-1/4/Equivalent)</u>	a) Matric with Science with minimum 2 nd Division with at least 50% marks with aptitude test.	a) Nil	Physics
		b) Matric with Science with minimum 2 nd Division with at least 50% marks with aptitude test.	b) Hands on experience in mechanical workshop.	Additive Manufacturing and 3D Printing & Scanning
		c) Matric with Science with minimum 2 nd Division with at least 50% marks with aptitude test.	c) Hands on experience in false ceiling and aluminum works.	Technical Services
		d) Matric with Science with minimum 2 nd Division with at least 50% marks with aptitude test.	d) Nil	Vacuum science & technology

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 except in Final Degree where First Division (60% marks or CGPA 3.0/4.0) is a pre-requisite of a post.
- First class degree means a minimum of 60% marks for annual system or CGPA 3.0 out of 4.0 for semester system and second class means a minimum of 50 % marks for annual system or minimum CGPA 2.0 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) / Board of Technical Education / Govt Recognized Institutes.
- **Post Qualification Experience** “means the experience gained after date of attaining required qualification till the closing date”.
- 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/conceal 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.
- Venue of written test/interviews is Islamabad. 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.
- Candidates having done O/A Level, should provide equivalent marks (given by IBCC) in the application.
- **Compliance to advertised criteria does not guarantee short listing. If large number of applicants meet prescribed criteria, further shortlisting may be carried out on the basis of higher grades in respective degree/relevant experience/any other criteria deemed appropriate by the organization.**
- The organization reserves the rights to withdraw/cancel the post(s) or reject any application at any stage without assigning any reason.
- **Candidates can apply for two posts only.**
- Individuals having desired qualification/experience given above should only apply through online NCP Job Portal https://www.ncp.edu.pk:8443/NCP_SIMS/login.jsp within 15 days of this advertisement. In case of any query email at hr@ncp.edu.pk.

General Manager Admin & HR
National Centre for Physics, Islamabad
Tel: 051-2077300 ext 456 & 462, 051-2077385
Email: hr@ncp.edu.pk
www.ncp.edu.pk