

**DELHI UNIVERSITY COMPUTER CENTRE**  
**UNIVERSITY OF DELHI**  
**DELHI – 110007**



Tel. No. 27667138, 27667165/Email: [director@ducc.du.ac.in](mailto:director@ducc.du.ac.in)

18<sup>th</sup> Sept, 2018

## **Advertisement**

Applications are invited for the following posts on contract basis in Delhi University Computer Centre:

S. No	Post to be Advertised	Essential Qualification	Desirable	Job Description	No. of Positions	Proposed monthly salary (Rs.)
1.	Senior System Programmer/ Sr. Programmer	PG degree in relevant subject with 55% marks with 5 Years of relevant experience.	Proven working experience in web application development.  Should have published at least three original enterprise web application	Sr. Software Developer – Full Stack (Refer Annexure-I)	03 ( 02 UR, 01 OBC)	50,000/- *
2.	Programmer	B.E./ B. Tech in Computer Science Engineering or M.Sc. (Computer Science) or MCA with three years' experience in programming and Database management or Network administration in a research/ Educational institute or commercial/ service industry establishment of repute.	Proven working experience in web application development (3-5 years)  Have published at least one original web application	Software Developer (Refer Annexure-II)	03 (01 UR, 01 SC, 01 OBC)	35,000/-*

3.	Sr. Technical Assistant (Computer)	MCA Or M.Sc.(Computer Science/IT) from a recognized University / Institute with one year experience Or B. Tech./B.E. (Computer Science / Information Technology / ECE) or equivalent degree with one year experience in relevant area.	<p><b>For System Administrator:</b> Three years work experience in complex systems design, programming and systems software and support.</p> <p><b>For Network Administrator:</b> Vendor-specific networking certification will be preferred</p> <p><b>For Website Developer/Content Management/Hardware/Software:</b> Proven software development experience</p> <p>Proven working experience in web application development</p> <p>Have published at least one original web application</p>	System Administrator, Network Administrator, Website Developer/Content Management/Hardware/Software (Refer Annexure-III, IV, and V respectively)	03 (01 UR, 01 SC, 01 OBC)	25,000/-*
4.	Technical Assistant (Computer)	Graduate having studied relevant subjects with two years' experience in the relevant field. Or Post Graduate degree in relevant subject	<p>Proven experience as network technician or relevant position</p> <p>Outstanding diagnostic, problem-solving and analytical skills</p> <p>Good communication skills</p> <p>Good knowledge of LAN/WAN networks, TCP/IP protocols and network technologies</p> <p>Hands-on experience with common software and hardware</p> <p>CCENT/CCNA qualifications are strongly preferred</p>	Network Field Technician/ Network Repair or Maintenance (Refer Annexure-VI)	4 (01 SC, 01 OBC, 02 UR)	20,040/-*

**\*Or as per approved rate of University**

Interested candidates may submit their applications online along with their CV and supporting documents on website <http://work1.du.ac.in/director-ducc> latest by Oct 03, 2018 by 5:30 p.m.

The job descriptions for each of the above posts are mentioned in the enclosed stated Annexure(s).

Joint Director,  
Delhi University Computer Centre

**Post: Senior System Programmer/Sr. Programmer****Job Description: Sr. Software Developer - Full Stack**

We're looking for a Full Stack developer who will take a key role on our team. Our Full Stack developer must have knowledge in all stages of software development.

You'll be working alongside other engineers and developers, collaborating on the various layers of the infrastructure for our software systems deployed across the university.

**Responsibilities:**

- Ability to understand core requirements and translate them into technical requirements
- A knack for benchmarking and optimization
- Design overall architecture of the web application.
- Maintain quality and ensure responsiveness of applications.
- Collaborate with the rest of the engineering team to design and launch new features.
- Maintain code integrity and organization. Proficiency with GIT for code versioning
- Experience working with graphic designers and converting designs to visual elements.
- Understanding and implementation of security and data protection

**Skills and Expertise:****Backend**

- Strong experience on modular application design and development using MVC design pattern and RESTful architecture; using PHP / Ruby on different platforms
- Proficiency with asynchronous processing using NodeJS
- Expertise on working with C/C++ for IOT platforms and Applications
- Knowledge of both SQL and NoSQL databases such as MySQL and MongoDB
- Familiarity with in-memory data structure stores such as REDIS and RESQUE
- Good understanding of server-side CSS preprocessors like SASS
- Expertise on web socket programming for real time application development
- Experience in working with frameworks and languages such as YII2, NodeJS, Ruby On Rails, C/C++, Python, Java, Swift etc.

**Frontend**

- Working knowledge of the general mobile landscape, architectures, trends, and emerging technologies
- Strong proficiency in JavaScript, including DOM manipulation and the JavaScript object model
- Thorough understanding of frontend frameworks such as React/Redux, ELM, Angular, DOJO etc.
- Familiarity with specifications of EcmaScript6
- Familiarity with Template Engines like Moustache, EJS
- Experience with common front-end development tools such as Babel, Webpack, NPM, etc.
- Knowledge of isomorphic javascript concept
- Knowledge of modern authorization mechanisms, such as JSON Web Token
- Familiarity with RESTful APIs
- Experience with cloud message APIs and usage of push notifications.
- Strong understanding of UI libraries such as Material UI, Bootstrap, Foundation etc.

**Testing**

- Creation and modification of use cases for every build release to guarantee maximum coverage of test scenarios to ensure minimal misses in the successive framework delivered

- Performing in-depth and time-lined testing, namely, sanity test, bug verification, assurance testing and full regression testing to prevent any information eclipsing and/or broken functionality in order to deliver fault-free production releases
- Familiarity with testing and benchmarking tools such as Codeception, Selenium, Apache Jmeter, Jasmine, Node Assert, OWASP Security Tools

**Post: Programmer****Job Description: Software Developer**

You'll be working alongside other engineers and developers, collaborating on the various layers of the infrastructure for our software systems deployed across the university.

**Responsibilities:**

- Ability to understand requirements and translate them into technical requirements
- Collaborate with the rest of the engineering team to design and launch new features.
- Maintain code integrity and organization. Proficiency with GIT for code versioning
- Experience working with graphic designers and converting designs to visual elements.
- Understanding and implementation of security and data protection

**Skills and Expertise:****Backend**

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**Post: Senior Technical Assistant (Computer)****Job Description: System Administrator**

We are currently looking for an experienced System Administrator to join our team. The System Administrator must have a deep and broad knowledge of computer software, hardware and networks. S/He will be responsible for designing, organizing, modifying, and supporting university's computer systems.

Daily tasks may include installing, upgrading and monitoring software and hardware. The System Administrator will maintain the essentials such as operating systems, business applications, security tools, web-servers, email, laptop, and desktop PCs.

**Responsibilities:**

- Responsible for the technical design, planning, implementation, and the highest level of performance tuning and recovery procedures for mission critical enterprise systems.
- Serves as a technical expert in the area of system administration for complex operating systems. Recommends the redesign and configuration of operating systems and system applications.
- Investigates and analyzes feasibility of system requirements and develops system specifications.
- Manages the day-to-day operations of the host systems by monitoring system performance, configuration, maintenance and repair. Ensures that records of system downtime and equipment inventory are properly maintained. Applies revisions to host system firmware and software. Works with vendors to assist support activities.
- Develops new system and application implementation plans, custom scripts and testing procedures to ensure operational reliability. Trains technical staff in how to use new software and hardware developed and/or acquired.
- Performs troubleshooting as required. As such, leads problem-solving efforts often involving outside vendors and other support personnel and/or organizations.
- Establishes, maintains and manages users' Unix and Windows accounts. Installs, modifies and maintains systems and utility software on server computer systems. Provides server support related to other software.
- Establishes guidelines and methods for the installation and management of the host computer operating systems, disk arrays, tape libraries and other components.
- Ensures high availability and acceptable levels of performance of mission critical host computer resources.
- Develops procedures to maintain security and protect systems from unauthorized use, acts of nature and user abuse.
- Develops procedures, programs and documentation for backup and restoration of host operating systems and host-based applications.
- Manages the data center and computer host systems including hardware, software and equipment such as air-conditioning system, UPS (uninterrupted power system) and fire protection system.
- Develops tools, procedures, and training sessions for Operations, User Support and Systems Development staff to assist with work.
- Stays current with technological developments in systems administration technology and recommends ways for DUCC to take advantage of new technology.

**Skills and Expertise**

- Specific experience with UNIX and Microsoft Operating Systems
- Experience with programming languages
- Experience with Microsoft Exchange Server 2013
- Experience with open source email collaboration suites such as Zimbra
- Experience with Barracuda Internet and email-filtering appliance is a plus
- Experience with VMware 5.5 including VLAN and Enterprise Plus features
- Experience with iSCSI SANs; Dell EQ and NetApp knowledge is a plus
- Current equipment and technologies in use
- Unix system administration, enterprise backup and recovery procedures, and system performance monitoring tools
- Understanding of server networking concepts such as proxy, reverse proxy, load balancing etc.
- Effective project management techniques
- Principles and practices of effective management and supervision.

- Ability to Plan, organize and document complex system design activities and to configure systems to be consistent with institutional policies/procedures
- Communicate technical/complex information both verbally and in writing; establish and maintain cooperation, understanding, trust and credibility
- Perform multiple tasks concurrently and respond to emergency situations effectively.

**Post: Senior Technical Assistant (Computer)****Job Description: Network Administrator**

We are currently looking for an experienced Network Administrator to join our team. The Network Administrator must have a deep and broad knowledge of enterprise networks, hardware and software. He/She will be responsible for designing, organizing, modifying, and managing university's network.

The Network Administrator will design and oversee local area networks, wide area networks, and network segments. Daily tasks may include installing, upgrading and monitoring software and hardware. The Network Administrator will maintain the essentials such as networking devices, operating systems, security tools, firewalls, UTMs, SANS, and Security information and event management systems.

**Responsibilities:**

- Responsible for the technical design, planning, implementation, and the highest level of performance tuning and recovery procedures for mission critical enterprise network.
- Serves as a technical expert in the area of network administration for enterprise grade setup. Recommends the redesign and configuration of network operating systems and devices.
- Investigates and analyzes feasibility of network requirements and develops network specifications.
- Manages the day-to-day operations of the network by monitoring performance, configuration, maintenance and repair of networking devices such as routers, fibre channel switches, Ethernet switches etc. Ensures that records of network downtime and equipment inventory are properly maintained. Applies revisions to network system firmware and software. Works with vendors to assist support activities.
- Performs troubleshooting as required. As such, leads problem-solving efforts often involving outside vendors and other support personnel and/or organizations.
- Establishes guidelines and methods for the installation and management of the network devices, operating systems, disk arrays, fibre channel switches, routers, tape libraries and other components.
- Ensures high availability and acceptable levels of performance of mission critical network resources.
- Develops procedures to maintain network security and protect systems from unauthorized use, acts of nature and user abuse.
- Develops procedures, programs and documentation for backup and restoration of networking systems and policies.
- Develops tools, procedures, and training sessions for Operations, User Support and Systems Development staff to assist with work.
- Manages the data center and networking systems including hardware, software and equipment such as air-conditioning system, UPS (uninterrupted power system) and fire protection system.
- Stays current with technological developments in systems administration technology and recommends ways for DUCC to take advantage of new technology.

**Skills and Expertise**

- Experience with CISCO switches and routers
- Experience with popular firewalls and UTMS such as Cyberoam, Fortinet, CISCO ISA etc.
- Experience with deploying and managing campus wireless network
- Experience with iSCSI SANS; Dell EQ and NetApp knowledge is a plus
- Programming languages and operating systems
- Current equipment and technologies in use
- Proficiency with Network monitoring software and Remote monitoring software such as Nagios, Snort, Wireshark etc.
- Ability to Plan, organize and document complex network design activities and to configure systems to be consistent with institutional policies/procedures
- Communicate technical/complex information both verbally and in writing; establish and maintain cooperation, understanding, trust and credibility
- Perform multiple tasks concurrently and respond to emergency situations effectively.



**Post: Senior Technical Assistant (Computer)****Job Description: Website Developer/Content Management/Hardware/Software**

We are looking for an outstanding Web Developer to be responsible for the coding, innovative design and layout of our website.

Web developer responsibilities include building websites from concept all the way to completion from the bottom up, fashioning everything from the home page to site layout and function.

**Responsibilities**

- Write well designed, testable, efficient code by using best software development practices
- Create website layout/user interface by using standard HTML/CSS practices
- Integrate data from various back-end services and databases
- Gather and refine specifications and requirements based on technical needs
- Create and maintain software documentation
- Be responsible for maintaining, expanding, and scaling our site
- Stay plugged into emerging technologies/industry trends and apply them into operations and activities
- Cooperate with web designers to match visual design intent

**Skills and Expertise**

- Proven working experience in web programming
- Experience Building User Interfaces and Prototypes From Wireframes and Designs
- Top-notch [programming skills](#) and in-depth knowledge of modern HTML5/CSS3
- Familiarity with at least one of the following programming languages: PHP, ASP.NET, Javascript or [Ruby on Rails](#)
- Experience with Content Management Systems such as CMSMS, Drupal, Wordpress etc.
- A solid understanding of how web applications work including security, session management, and best development practices
- Working knowledge of the general mobile landscape, architectures, trends, and emerging technologies
- Adequate knowledge of relational database systems, Object Oriented Programming and web application development
- Hands-on experience with network diagnostics, network analytics tools
- Basic knowledge of Search Engine Optimization process
- Familiar with Development and Debugging Tools for Cross-Browser Issues
- Familiar with Social Media and Third Party APIs
- Experience working with remote data via REST and JSON
- Aggressive problem diagnosis and creative problem-solving skills
- Strong organizational skills to juggle multiple tasks within the constraints of timelines and budgets with business acumen
- Ability to work and thrive in a fast-paced environment, learn rapidly and master diverse web technologies and techniques.

**Post: Technical Assistant (Computer)****Job Description: Network Field Technician/Network Repair or Maintenance**

Looking for a skilled Network Technician to undertake tasks of network development and maintenance. You will be responsible for designing the network in ways that optimize its performance. The ideal candidate will be a competent individual with great passion for technology. An analytical mindset will be essential for effective troubleshooting and improving the network's functions. Job duties for cable technicians include inspecting cable lines, laying ground cable, repairing poles and towers and driving work vehicles to jobs.

**Responsibilities**

- Design and install well-functioning computer networks, connections and cabling
- Perform troubleshooting to system failures and identify bottlenecks to ensure long term efficiency of network
- Inspect LAN infrastructure and fix minor or major problems/bugs
- Evaluate network performance and find ways of improvement
- Organize and schedule upgrades and maintenance without deterring others from completing their own work
- Do regular network monitoring to avoid network downtime
- Install, maintain, and repair cable systems, most often involved with local network and internet services
- Test and troubleshoot issues with network communication, switches, Access points etc.
- Conduct thorough inspections of cable lines to ensure the system is working correctly
- Repair related poles and towers to resolve cable issues
- Pull, route, or label Optical Fiber, CAT5 or CAT6 cable
- Install various support structures, including cable racks, j-hooks, inner duct, and other related structures
- Communicate and collaborate with other members of the field service team to resolve complex issues
- Provide high-quality service to all users

**Requirements**

- Proven experience as network technician or relevant position
- Outstanding diagnostic, problem-solving and analytical skills
- Good communication skills
- Good knowledge of LAN/WAN networks, TCP/IP protocols and network technologies
- Hands-on experience with common software and hardware
- CCENT/CCNA qualifications are strongly preferred