



**Institute of Informatics and Communication  
University of Delhi South Campus  
Benito Juarez Road, New Delhi-110021**

**Corrigendum to Advertisements**

**MHRD-IIC/2018-19/01, MHRD-IIC/2018-19/02 and MHRD-IIC/2018-19/03**

10<sup>th</sup> April 2019

Last date of for the application following positions under MHRD sponsored Research Project at Institute of Informatics & Communication is extended to 17 April, 2019.

**(Extended Date of Submission: 17 April 2019)**

S. No.	Post Advertised	Post Code	Essential Qualification	Essential Experience	No. of Positions	Monthly Remuneration (INR)
1	DevOps	(CODE: 105)	M.Sc./MS/MCA degree in Computer Science / Information Technology / Informatics / Engineering or allied subjects with 60% or above with minimum 1 Year of Experience Or B.Tech. with 60% or above with minimum 2 Years of Experience	Preference will be given to candidates with experience in software development and implementation projects in education sector. Experience in a similar position and industry certifications may be preferred.	1	55,000 - 62,450
2	Interface and UI Design	(CODE: 106)	Graduates in any relevant stream with minimum 1 Year of industry experience as UI/UX professional	Preference will be given to candidates with experience in software development and implementation projects in education sector	1	45,000 – 50,000
3	Full Stack Application Programming	(CODE: 107)	M.Sc./MS/MCA/B.Tech. degree in Computer Science / Information Technology / Informatics / Engineering or allied subjects with 60% or above + 1-3 (or more) Years of Industry Experience	Preference will be given to candidates with experience in software development and implementation projects in education sector	5	45,000 - 52,450
4	Mobile Application Programming (Android OS)	(CODE: 108 A)	M.Sc./MS/MCA /B.Tech degree in Computer Science / Information Technology / Informatics / Engineering or allied subjects with 60% or above + 1-3 (or more) Years of industry Experience in Android/iOS Programming is must	Preference will be given to candidates with experience in software development and implementation projects in education sector	2	40,000-46,500
	Mobile Application Programming (iOS)	(CODE: 108 B)				
5	Network Administrator	(CODE: 109 A)	M.Sc./MS/MCA /B.Tech degree in Computer Science / Information Technology / Informatics / Engineering or allied subjects with 50% or above + 1-3 (or more) Years of Experience	Preference will be given to candidates with experience in software development and implementation projects in education sector. Experience in a similar position and industry certifications may be preferred.	3	35,000-40,000
	System Administrator	(CODE: 109 B)				
6	Project Assistant	(CODE: 112 A)	This position is open to graduates with (a) Bachelors degree in Computer Science / Information Technology / Informatics / Engineering or allied subjects 55% or above or (b) Diploma in Computer Science / Information Technology / Informatics / Engineering or allied subjects with 1-3 Years of Experience	Preference will be given to candidates with experience in software projects in education sector. Experience in a similar position and industry certifications may be preferred.	4	25,000-35,000
		(CODE: 112 B)	This position is open to graduates in any relevant stream. Good Knowledge of office related work such as accounting, filing, stock keeping etc. using IT for day to day work is essential	Preference will be given to candidates with experience in software projects in education sector. Experience in a similar position and industry certifications may be preferred.		
7	Roll Out Support	(CODE: 113)	B.Sc./B.S./B.Voc./B.Tech./M.Sc./MS/MCA or degree in Computer Science / Information	Experience of 1-3 years	20	25,000-32,450

			Technology / Informatics / Engineering or a related subject with 50% or above			
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Interested candidates may submit their applications online at <http://research.iic.ac.in/project> along with required supporting documents on or before the last date. **The extended last date for filling up the application form is 17<sup>th</sup> April 2019.**

The generic work descriptions (required skill set) for each of the above posts are mentioned in Annexure - I. The Terms and conditions are mentioned in Annexure – II.

The cut-off date for calculating age, qualifications, experience etc. will be **09.04.2019**.

**Principal Investigator**  
MHRD Project

## Annexure-I

Revised Detailed Work Descriptions of the posts as advertised vide Advertisement Number **MHRD-IIC/2018-19/01, MHRD-IIC/2018-19/02 and MHRD-IIC/2018-19/03**

### **DevOps (CODE: 105)**

#### Work Description

DevOps Engineers look at individual functions of the cloud environment and write code to scale them to fill some immediate need. This might include adding users to a cloud infrastructure, adding permissions, adding or changing workflow processes, or adding entire objects that function like a container to meet business needs. Their focus is centred on configuration, documentation, optimization and support of the infrastructure components.

DevOps Engineers are responsible for supporting the users of the infrastructure they develop, and the first line of defence is protecting the cloud against hackers and viruses. They do this with code, of course, building secure software from the start.

#### Responsibilities

- Build upon the work of their counterparts on development and IT teams to scale cloud programs, create workflow processes, assign tenants and more
- Manage software project lifecycle
- Implement integrations required under the project
- Deploy updates and fixes
- Build tools to reduce occurrences of errors and improve stakeholder experience
- Mentor software developers and architecture teams within an organization to teach them how to create software that is easily scalable

#### Required Qualification and Skills

- Agile Project Management
- Demonstrable skills in Cloud Technology, Container Concepts, CI/CD, Deployment Automation & Orchestration, Infrastructure Automation, Source Control
- Should be comfortable in using one or more automation tools or orchestration application stacks and frameworks (e.g. OpenStack, Chef, Ansible etc.)
- Experience developing scalable cloud microservices using container technologies like Docker, Kubernetes, and Mesosphere
- Ability to develop and debug software scripting and code in at least one of the following languages (Bash, Perl, etc.)
- Leverage DevOps tools like Git, Jira, Jenkins, Artifactory, Zephyr, etc. to deliver automation and promote a DevOps culture
- Experience with building and running large scale, distributed, highly-available, fault-tolerant, multi-tier applications running on both Windows and Linux

### **Interface and UI Design (CODE: 106)**

#### Job Description

Experienced and talented UI designer is required to design and shape unique, user-centric products and experiences. The candidate will have experience working in agile teams, with developers, UX designers and copywriters. Interface and UI Designer will make deliberate design decisions and translate any given user-experience journey into a smooth and intuitive interaction.

#### Responsibilities

- Be a great team player, experienced in working with agile teams. Ability to collaborate closely with developers, copywriters and UX designers.
- Create, improve and use wireframes, prototypes, style guides, user flows, and effectively communicate your interaction ideas using any of these methods.
- Present and defend design decisions. All design decisions should be based on the overall design roadmap as well as own design thinking and fundamental principles (*i.e. color theory, visual weight, etc.*)
- Continually keep yourself and your design team updated with the latest changes in your industry's standards.

#### Required Qualification and Skills

- Strong portfolio to be presented and defended during interview.
- Hands-on experience creating wireframes, prototypes, storyboards, user flows, etc.
- Experience using tools such as Photoshop, Sketch, Illustrator, InVision, UXPin, Quartz.
- Understanding of basic front-end languages: HTML5, CSS3 JavaScript.
- Creative ideas with problem solving mindset.
- Experience working in an agile/scrum development process.

### **Full Stack Application Programming (CODE: 107)**

#### Job Description

Full Stack developer will take a key role in team. Full Stack developer must have knowledge in all stages of software development.

Full Stack developer will be working alongside other engineers and developers, collaborating on the various layers of the infrastructure for software systems deployed across the university.

#### Responsibilities

- Ability to understand product requirements and translate them into technical requirements.

- A knack for benchmarking and optimization.
- 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
- Work 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 Yii2 Framework, MVC design pattern and RESTful architecture.
- Expertise with HTML5, Bootstrap, Javascript, jQuery, CSS3 is must.
- Knowledge of both SQL and NoSQL databases such as MySQL and MongoDB
- Proven software development experience
- Proven working experience in web application development
- Have published at least one original web application
- 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
- Familiarity with testing and benchmarking tools such as Codeception, Selenium, Apache Jmeter, etc.

### **Mobile Application Programming (CODE: 108 A and 108 B)**

#### Job Description

Android and iOS developer are required who will be responsible for the development and maintenance of applications aimed at a vast number of diverse mobile devices. Mobile Application Developer's primary focus will be the development of mobile applications and their integration with back-end services. Mobile Application Developer will be working along-side other engineers and other developers working on different layers of the infrastructure. Therefore, commitment to collaborative problem solving, sophisticated design, and creating quality products is essential.

#### Responsibilities

- Translate designs and wireframes into high quality code
- Design, build, and maintain high performance, reusable, and reliable code
- Ensure the best possible performance, quality, and responsiveness of the application
- Identify and correct bottlenecks and fix bugs
- Help maintain code quality, organization, and automatization
- Work with outside data sources and APIs
- Unit-test code for robustness, including edge cases, usability, and general reliability
- Continuously discover, evaluate, and implement new technologies to maximize development efficiency

#### Required Qualification and Skills

- Strong knowledge of JAVA/Objective-C or Swift programming language and Android SDK, different versions of Android/iOS, and how to deal with different screen sizes
- Ability to understand business requirements and translate them into technical requirements
- Solid understanding of the full mobile development life cycle.
- Strong knowledge of Android/iOS UI design principles, patterns, and best practices
- Experience with offline storage, threading, and performance tuning
- Ability to design applications around natural user interfaces, such as "touch"
- Familiarity with the use of additional sensors, such as gyroscopes and accelerometers
- Knowledge of the open-source Android/iOS ecosystem and the libraries available for common tasks
- Working knowledge of the general mobile landscape, architectures, trends, and emerging technologies
- Familiarity with RESTful APIs to connect Android/iOS applications to back-end services
- Familiarity with cloud message APIs and push notifications
- A knack for benchmarking and optimization
- Understanding of Google's Android/iOS platform design principles and interface guidelines
- Proficient understanding of code versioning tools, such as Git
- Familiarity with continuous integration
- Familiarity with modern multiplatform compatible programming languages such as Dart, Kotlin etc.
- Familiarity with unified app development frameworks such as Flutter.io.
- 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

- Proven mobile app development experience
- Proven working experience in mobile application development
- Have published at least one original mobile application

## **Network Administrator (CODE: 109 A)**

### **Job Description:**

The Network Administrator must have a deep and broad knowledge of enterprise networks, hardware and software. Network Administrator will be responsible for designing, organizing, modifying, and managing network.

The Network Administrator will design and oversee local 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 implementation, monitoring and of mission critical enterprise network.
- Manages the day-to-day operations of the network by monitoring performance, configuration, maintenance and repair of networking devices such as routers, fiber 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.
- Installation and management of the network devices, operating systems, disk arrays, fiber channel switches, routers, tape libraries and other components.
- Ensures high availability and acceptable levels of performance of mission critical network resources.
- Maintain network security and protect systems from unauthorized use, acts of nature and user abuse.
- Manage backup and restoration of networking systems and policies.
- Support Users and Systems Development staff to assist with work.
- Manage 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 project to take advantage of new technology.

### **Required Qualification/Skills**

- 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.

## **System Administrator (CODE: 109 B)**

### **Job Description:**

The System Administrator must have a deep and broad knowledge of computer software, hardware and networks. System Administrator will be responsible for monitoring and managing servers and 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 implementation, monitoring and of mission critical enterprise systems.
- Manages the day-to-day operations of the servers and 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 linux server operating systems, disk arrays, tape libraries and other components.
- Ensures high availability and acceptable levels of performance of mission critical server and system 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 Project to take advantage of new technology.

#### Skills and Expertise

- Specific experience with Linux Operating systems such as RHEL, Centos, Ubuntu, Debian etc.
- Experience with open source email collaboration suites such as Zimbra
- Experience with Load Balancers, Internet and email-filtering appliances
- Experience with hypervisors such as Xen Server, Proxmox, VMware etc.
- Experience with iSCSI SANs; Dell EMC Data Domain and NetApp knowledge is a plus
- Experience with VSAN platforms like ceph, openshift etc.
- Linux 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.
- 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.

## **Project Assistant (CODE: 112-A)**

#### Job Description

Project Assistant must be familiar with the software development life cycle (SDLC) from preliminary system analysis to tests and deployment and documenting it. Project Assistant will be responsible for managing and updating Project Management Portal and website.

#### Responsibilities

- Execute full software development life cycle (SDLC)
- Develop flowcharts, layouts and documentation to identify requirements and solutions
- Write well-designed, testable code
- Produce specifications and determine operational feasibility
- Integrate software components into a fully functional software system
- Develop software verification plans and quality assurance procedures
- Document and maintain software functionality
- Troubleshoot, debug and upgrade existing systems
- Deploy programs and evaluate user feedback
- Comply with project plans and industry standards
- Ensure software is updated with latest features

#### Required Qualifications/Skills

- Proven work experience as a level zero or level one Software Engineer or Software Developer
- Ability to document requirements, specifications, features of system, installation guides and system manuals.
- Demonstrable knowledge of web programming languages like PHP/Python and databases like MySQL, MongoDB etc.
- Experience with test-driven development
- Proficiency in functional software testing.

## **Roll Out Support (CODE: 113)**

#### Job Description

Roll Out Support will be responsible for maintaining the software stack and provide support and training to the end user at their premises. The candidate will coordinate with the core central team on regular basis for effective and seamless implementation of the project

#### Responsibilities

- Will be deputed in different states in India after required training in Delhi.
- Liaise with, and provide training and support to, end users and staff on project operation and other issues.
- Coordination with the central team on regular basis.
- Report about issues and incidences at the project site to the central team on daily basis.
- Ensure effective and seamless implementation of the project on-site.
- Ensure different modules are implemented in accordance to the assigned timeline.

#### Required Qualification/Skills

- Proven work experience as a Technical Support Engineer, Desktop Support Engineer, IT Help Desk Technician or similar role
- Hands-on experience with Windows/Linux/Mac OS environments
- Good understanding of computer systems, mobile devices and other tech products
- Ability to diagnose and troubleshoot basic technical issues
- Familiarity with remote desktop applications and help desk software
- Excellent problem-solving and communication skills
- Ability to provide step-by-step technical help, both written and verbal
- Should have skills of network troubleshooting

## Annexure-II

### Terms and Condition

1. Applicants are required to apply online from extended date of application i.e. **10-04-2019** to **17-04-2019** through the website <http://research.iic.ac.in/project>. No other mode of application will be accepted in any case. In case the candidate is applying for multiple positions, separate application form for each position has to be filled. However, candidates applying for multiple positions are required to mention the same e-mail id and contact number in all applications.
2. The interested applicants are advised to go through the eligibility criteria carefully and ascertain themselves regarding their eligibility. The same is available at <http://research.iic.ac.in/project>.
3. Those candidates, whose application is successfully submitted, will be called for Interview or/and Skill & Aptitude Test. Only those candidates, who are shortlisted after the Interview and clear the Document Verification, will be selected.
4. Date of Interview or/and Aptitude Test and Document verification will be informed after last date of submission of form. Document verification will be held on the date of Skill & Aptitude Tests and/or Interview. The same will be published at <http://research.iic.ac.in/project>. Candidates are advised to check the website regularly.
5. The shortlisted candidates will be deployed on contract basis, initially for the period of twelve months (which may be further extended based on requirements/performance of the candidate). The Project Appointment Committee (PAC) reserves the right to terminate appointment at any time during the project without assigning any reason thereof.
6. Final selection of candidates for hiring will be based on the performance of the candidates in the Interview and as found eligible as per prescribed criteria. PAC reserves right to conduct written test or skill test for screening the candidate at any time during the process of selection, if felt necessary.
7. No TA/DA will be provided to candidates for appearing for the Interview/ Skill & Aptitude Test/ Document Verification.
8. The place of deployment will be Delhi/nearby places. Candidates must be willing to travel to any place outside Delhi as part of their job. They can be temporarily posted outside Delhi, if required.
9. The qualification of the candidates must be from recognized University/Institution.
10. Selected candidates will not be paid any other financial benefits like Medical, HRA and Transport etc. except consolidated salary.
11. Candidates with last semester result awaited or incomplete degrees are eligible to apply.
12. Candidates must bring at least one original Photo ID proof and all original Mark sheets/ degrees/ testimonials/ post qualification experience certificates (including the Experience letter of the current place of working)/ one passport size photo and their SELF ATTESTED photocopies on the day of the Document Verification for verification purpose otherwise they will not be allowed to appear in the interview/ Aptitude Test. The cut-off date for calculating age, qualifications, experience etc. will be the last date of submission of the form i.e. **09.04.2019**. In case, last date is extended, the date of determining eligibility will not change.
13. The name of the candidate in the application form must be the same as mentioned in the certificate of class X. In case the candidate has changed his name subsequent to Class X, the evidence to that effect should be furnished at the time of interview.
14. Canvassing/trying to influence IIC/DU employees to secure the job in any manner shall disqualify the candidate.
15. PAC has the right to accept or reject the application without assigning any reason thereof
16. The applicants are advised to visit the website <http://research.iic.ac.in/project> regularly for schedule of Document verification/ Skill & Aptitude Test/Interview or any update. No separate communication shall be made in any other form.
17. Applying does not provide any right to candidate to claim for job.

### Important Information

<b>Date of Extension of Application</b>	<b>10<sup>th</sup> April 2019</b>
<b>Date of Closing of Application</b>	<b>17<sup>th</sup> April 2019</b>

### Contact Information

<b>Email</b>	<b>projects@iic.ac.in</b>
<b>Phone</b>	<b>011-24157350 011-24110237</b>