

Ministry of Electronics and Information Technology (MeitY)

Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N)

(Ground Floor, Electronics Niketan, Ministry of Electronics & IT, 6, Lodhi Road, CGO Complex, New Delhi – 110003)

Recruitment

BISAG-N is in the process of hiring the following on contract basis for its projects on consolidated salary to work out of its office in Electronics Niketan, New Delhi.

- Manager (IT)
- Team Lead/Solution Architect
- Java Developer
- Web Designer
- Test Engineer
- Database Administrator
- System Administrator

To apply, email your CV to bisag-n.meity@digitalindia.gov.in, with appropriate subject (e.g., “Application for Java Developer in BISAG-N, New Delhi”).

Last date for receipt of applications is **5th November 2020**

Manager (IT)

Education

B.E./B.Tech (Computer Science/IT)/ MCA.

MBA/Masters in Computer Science/IT is a plus

Experience

- 4+ years of relevant experience
- Experience in program/project management of IT projects with at least 1 year of experience in managing the complete lifecycle of large IT / e-Governance projects
- More than 2 years of experience in rolling out e-Governance projects
- Solid technical background, with understanding or hands-on experience in software development and web technologies
- PMP/PRINCE II certification is a plus

Roles and Responsibilities

- Developing project scopes and objectives, involving all relevant stakeholders and ensuring technical feasibility
- Support the implementation of various IT projects across Central/State Departments. Undertake requirement gathering from Departments for their IT needs.
- Support in development of project management document and make demonstration to the Departments concerned.
- Support in managing technical team to rollout the deliverables.
- Support in training and capacity building in IT domain.
- Support in formulating strategies for rolling out IT projects in Centre/State.
- Preparing requests for proposals and conducting all necessary meetings to facilitate selection of project services and products

In addition to above Primary Responsibilities the incumbent may be assigned any other task from time to time by officers concerned.

Team Lead/Solution Architect

Education

B.E./B.Tech (Computer Science/IT)/ MCA.

Experience

- 3+ years of relevant experience
- Hands-on experience with software development and system administration
- Well versed in strategic IT solutions; experience in project management, service-oriented architecture (SOA) and delivering scalable projects
- Experience in project management of IT projects with at least 1 year of experience in managing the complete lifecycle of large IT / e-Governance projects
- Knowledge of programming languages (e.g. PHP, JavaScript, Java etc.)
- Familiarity with various operating systems (e.g. Windows, UNIX) and databases (e.g. MySQL, PostgreSQL)
- Conducted regular code review and feedback
- Experience in cloud technologies
- Excellent communication skills, Problem-solving aptitude, Organizational and leadership skills

Duties – Roles and Responsibilities

- Understand organizational needs to define system specifications
- Plan and design the structure of technology solutions
- Lead software development team and manage projects
- Communicate system requirements to software development teams
- Evaluate and select appropriate software or hardware and suggest integration methods
- Oversee assigned programs (e.g. conduct code review) and provide guidance to team members
- Assist with solving technical problems when they arise
- Ensure the implementation of agreed architecture and infrastructure
- Address technical concerns, ideas and suggestions
- Monitor systems to ensure they meet both user needs and business goals
- Hands on experience of code versioning tools, such as SVN, Git
- Staying updated with latest technology and imparting training to the Team

Java Developer

Education

B.E./B.Tech (Computer Science/IT)/ MCA.

Experience

- 2+* years as a Java Developer in a technology company
- Experience in developing GIS portals (Geographic Information System) is preferred
- Proficiency in Java, developing Restful API and JSON data format handling
- Experienced in PostgreSQL, PostGIS and Geoserver
- Solid foundation in data structures, algorithms, and system design.
- Hands on experience of micro services architecture using components such as Cache management, developing APIs for components.
- Understanding of front-end technologies and platforms, such as JavaScript, HTML5, and CSS3.
- Implementation of security and data protection, proficient understanding of OWASP security principles
- Provide critical support & expertise during go-live.
- Hands on experience of code versioning tools, such as SVN, Git
- Experience of working for a government set-up/project is desirable

*Note - Experience may be relaxed by one year if the candidate is found suitable or possesses additional relevant qualifications

Roles and Responsibilities

- Developing GIS and workflow-based web and mobile portals through Java, PostgreSQL, PostGIS and GeoServer
- Develop a flexible and well-structured front-end architecture, along with the APIs to support it.
- API design and development (RESTful Services)
- Database design and development – PostgreSQL
- Work with agile practices, quick iterations, and integration of regular feedback
- Working with data visualization libraries
- Working on web server technologies and current frameworks

Web Designer

Education

B.E./B.Tech (Computer Science/IT)/ MCA.

Experience

- 3+ years of web design in a technology company
- Demonstrable graphic design skills with a strong portfolio
- Proficiency in HTML, CSS and JavaScript for rapid prototyping
- Must have strong knowledge on XHTML, HTML, and HTML5, CSS 3, Bootstrap and Responsive Web Layouts.
- Experience working in an Agile/Scrum development process
- Knowledge of JQuery, JavaScript, Magento and Word-Press is an added advantage.
- Up-to-date with the latest Web trends, techniques and technologies
- Understanding of web standards like W3C Validation, SEO Friendly Websites, Page Speed etc.
- Experienced in creating wireframes, storyboards, user flows, process flows and site maps; proficiency in Photoshop, Illustrator or other visual design and wire-framing tools
- Ability to solve problems creatively and effectively
- Good Communication Skills
- Knowledge of Government / GIS domain would be an added advantage

Roles and Responsibilities

- Design responsive webpages (HTML, CSS and JavaScript)
- Conceptualize original website design ideas
- Working with data visualization libraries
- Create wireframes, storyboards, user flows, process flows and site maps to communicate interaction and design ideas
- Establish and promote design guidelines, best practices and standards

Test Engineer

Education

B.E./B.Tech (Computer Science/IT)/ MCA.

Experience

- 3+ years* of experience as a QA testing for a large enterprise system.
- Experience of performance and regression testing is a plus
- Mandatory Experience in Automated testing tools (JMeter, other open source tools)
- Strong knowledge of software QA methodologies, tools and processes
- Experience in writing clear, concise and comprehensive test plans and test cases
- Hands-on experience with both white box and black box testing
- Solid knowledge of SQL and scripting
- Experience working in an Agile/Scrum development process
- Experience with performance and/or security testing is a plus
- Familiarity with MS office, reporting and documentation.

*Note - Experience may be relaxed by one year if the candidate is found suitable

Roles and Responsibilities

- Create detailed, comprehensive and structured test plans and cases
- Estimate, prioritize, plan and coordinate testing activities
- Identify, record, document thoroughly and track bugs; perform thorough regression testing when bugs are resolved
- Develop and apply testing processes for new and existing products
- Design, develop and execute automation scripts using open source tools
- Monitor debugging process results
- Investigate the causes of non-conforming software and train users to implement solutions
- Track quality assurance metrics, like defect densities and open defect counts
- Stay up-to-date with new testing tools and test strategies
- Researching, designing, implementing software programs
- Identifying areas for modification in existing programs and subsequently developing these modifications
- Knowledge of GIT Hub is an advantage; managing source code through GIT

Database Administrator

Education

B.E./B.Tech (Computer Science/IT)/ MCA.

Experience

- 3+ years of database management in a technology company
- Excellent knowledge of data backup, recovery, security, integrity and SQL, DBA case tools (frontend/backend) and third-party tools
- Database design, documentation and coding
 - Knowledge of 'relational database management systems' (RDBMS), 'Object Oriented Database Management Systems' (OODBMS) and XML database management systems
- Prior experience in Geographic Information System (GIS) is a plus
- Prior experience with relational (PostgreSQL, PostGIS) is a plus
- Familiarity with programming languages API
- Up-to-date knowledge of technology
- Strong analytical and organisational skills

Roles and Responsibilities

- Overlooking database design
- Setting up and testing new database and data handling systems
- Database Optimization Techniques; monitoring database efficiency
- Minimise database downtime and manage parameters to provide fast query responses
- Designing and preparing reports for management
- Developing protocols for data processing
- Creating complex query definitions that allow data to be extracted
- Training colleagues in how to input and extract data
- Constantly review & improve upon current processes & methodologies
- Determine, enforce and document database policies, procedures and standards

System Administrator

Education

B.E./B.Tech (Computer Science/IT)/ MCA.

Experience

- 4+ years* in Linux and Windows system administration and preferably work as a DevOps preferably as a team lead.
- **Understanding** and some **experience** in most of the following areas:
 - Implementation and support of SaaS solutions based on Linux platform hosts
 - PKI
 - Management of storage solutions
 - Certificate Server Management
 - MySql /MariaDBServer Management
 - Postgres Server Management
 - Apache /nginx
 - Data Retention strategies
 - Linux / Unix systems
 - SVN
 - Git
 - Windows Server Management
 - Puppet /Chef configuration management tool
 - Openstack and KVM /LXC
 - Geoserver: Installation, configuration, tuning
 - Geowebcache: Installation, configuration, tuning
 - Load balancing solutions (HAProxy)
- **Technical Skill Set Required**
 - Python/Shell Scripting
 - Apache / Tomcat management (from the system perspective)
 - Shell scripting for automation of administrative tasks
 - File and Print Services
 - Scheduled Task Management
 - Server Lifecycle Management including EOL and migration strategies
 - Proactive Server Performance Management and Tuning
 - Issue management, troubleshooting, and root cause analysis
 - Server hardware selection and management (chassis, blade, standalone)
 - Management servers in a virtualized environment (Hyper-V and VMWare ESX)
 - DNS Management
 - LDAP integration
 - Support of distributed development environments on Linux based systems
 - Linux Server Permissions Management
 - Integration of Linux servers with NAS / SAN technologies.

- Thorough understanding of internet technologies and protocols (TCP/IP, HTTP, SSL, SMTP, etc.)
- Development of Highly Available / High Redundancy Linux Server environments including clustered server implementations
- Disaster Recovery planning (Linux Server Specific)
- Linux Server specific backup technologies and approaches
- Cloud based server implementations
- Knowledge of Open Stack
- Experience in setup and management of file systems (GlusterFS) for optimum i/o operations.
- A portfolio of relevant open source projects you significantly contributed to or a record of relevant research publications. Links to GitHub, blogs,
- Familiarity with Free and Open Source communities.

*Note - Experience may be relaxed by one year if the candidate is found suitable

Roles and Responsibilities

- To build, configure, optimize, and tune Linux server farms.
- To utilize configuration management tools to manage large server farms and scale our existing infrastructure to increase capacity and to support new services.
- Deals with troubleshoot production issues and work with development teams through resolution and provide system support to our web/mobile development teams
- Works on server configuration changes, release management, performance tuning, capacity planning, automation, etc.