

**Domain Expertise (Technical)**

Project Engineer (0-5 years experience)	Domain 1	Domain 2	Domain 3	Domain 4
<b>Domain Expertise</b>	<b>Software Development</b>	<b>Faculty</b>	<b>Bio Informatics, Geophysics, Environment, Computational Fluid Dynamics</b>	<b>Patent Engineer</b>
<b>Location</b>	<b>Delhi, Pune, Patna</b>	<b>Bhubaneshwar, Pune</b>	<b>Pune</b>	<b>Pune</b>
<b>No. of Requirements</b>	<b>41</b>	<b>3</b>	<b>9</b>	<b>1</b>
<b>Skill Sets (Single or Multiple)</b>	<p><b>Web Technologies</b> : Ajax, AngularJS , ASP.Net,Bootstrap, HTTP,HTML, JavaScript,Jquery, Json, JSP, Knowledge on building RESTFUL and SOAP web services, Web Services,XML</p> <p><b>Languages</b> : C, C++, C#,J2EE, JAVA,OOPS, PHP, Python, Scripting Language (PBS, SLURM), SERVLETS, Writing query</p> <p><b>Databases</b> :MySQL, Oracle,PostgreSQL, MongoDB, Microsoft SQL Server, Microsoft SQL Server 2008 /2012/2018</p> <p><b>Framework</b> :Android and Joomla , .Net,MVC 4.0,Qt Framework,Spring,Struts</p> <p><b>API</b> :Parallel Programming with MPI , Parallel Programming with Open MP,Web API</p> <p><b>JAVA API</b> : EJB,Hibernate, JDBC</p> <p><b>Machine Learning</b> : Natural Language Processing, Neural Networks, Machine Learning</p> <p><b>Web Servers</b> : Jboss,Tomcat</p> <p><b>HPC</b> : HPC Accelerators such as GPGPUs, HPC Accelerators such as Intel Xeon Phi</p> <p><b>OS</b> : LINUX</p> <p><b>Software Design</b> : Design Patterns</p> <p>Networking, Parallel Computing, Expertise on debuggers, Expertise on Linux based software development tools,Expertise on Porting of Parallel Applications on Linux Based Systems, Expertise on Profilers, Knowledge Computational Fluid Dynamics, Knowledge of Geographic Information systems,Knowledge of Image Processing, Knowledge of Remote Sensing,Knowledge of informatics system and standards in healthcare Good communication and interpersonal skills, Good Team Player, Good written &amp; verbal communication skills in English, Knowledge of Punjabi Language will be an added advantage, Knowledge of VLSI, HDL Language, Hardware Design Principle</p>	<p>Technically Sound With good understanding of Technologies in ICT domain</p> <p>Good Knowledge of Advanced Database, Programming Languages, Hadoop, IT Infrastructure, Computer Networks</p> <p>Should possess good verbal and written communication skills</p> <p>Must have excellent interpersonal and problem solving skills</p> <p>Knowledge of C, C++, Data Structure, Operating System Concepts &amp; System Programming, RTOS Programming, Linux Device Driver, Embedded Linux,IoT Technologies etc.</p> <p>Fundamentals Computer Networks, Linux &amp; Windows System Administration, Cyber Forensic, PKI, Security Concepts, Network Defense and Countermeasures (NDC) etc.</p>	<p>Molecular Modeling Simulations</p> <p>Machine Learning algorithms for biological data. Scripting language like Perl/Python, shell scripting and familiarity with Linux environment desirable</p> <p>Knowledge of earthquake seismology and related software</p> <p>Understanding of seismic data processing and algorithm development</p> <p>Knowledge of operating systems such as Unix/Linux, programming languages like Fortran &amp; C.</p> <p>Research Publication.</p> <p>Knowledge of Meteorology</p> <p>Good written and oral communication skill</p> <p>Knowledge of atmospheric /Ocean/Hydrology/ Air Quality/CFD Modeling</p> <p>WRF/WRF-Chem/WRF-Hydro/OpenFOAM Modelling and simulations</p> <p>Model Data visualization using GRADS/NCL or any Parallel computing and HPC</p> <p>Data Analysis</p> <p>Experience of working on seismic data processing software using field seismic data.</p> <p>Proven experience in seismic algorithm development.</p> <p>High performance computing knowledge in seismic data processing domain.</p> <p>Knowledge of Unix/Linux and open source seismic software</p> <p>Research publications.</p> <p>Knowledge of CFD models, CFD- Heat Transfer simulations, Knowledge of HPC and parallel programming.</p> <p>Project Leadership, CFD code optimization</p> <p>Programming skill in C/ C++</p>	<p>Knowledge of Intellectual Patent Laws, Experience using various IP database.</p> <p>Conducting searches for identifying relevant products and technical analysis of the documents/literature related to the new system</p> <p>Rating/ranking of patents based on the similarities and /or differences identified with the relevant products</p> <p>Conducting prior art analysis, landscapes, Claim mapping, and state of art searches</p> <p>Strong analytical skills with basic understanding of diverse technology domains.</p> <p>Excellent comprehension skills and ability to learn quickly</p> <p>Excellent verbal &amp; written communication skills</p>

Project Engineer (0-5 years experience)	<b>Domain 1</b>	<b>Domain 2</b>	<b>Domain 3</b>	<b>Domain 4</b>
<b>Domain Expertise</b>	<b>Software Development</b>	<b>Faculty</b>	<b>Bio Informatics, Geophysics Environment Computational Fluid Dynamics</b>	<b>Patent Engineer</b>
<b>Location</b>	<b>Delhi, Pune, Patna</b>	<b>Bhubaneshwar, Pune</b>	<b>Pune</b>	<b>Pune</b>
<b>No. of Requirements</b>	<b>41</b>	<b>3</b>	<b>9</b>	<b>1</b>
Job Profile	Software Development & Implementation, ON - site development and support, GUI, Database Management, development of decision support system. Application porting. Optimization, development and training onsite, Learn, study and prepare machine parameters and models for software-hardware control & interface, Java Developer / PHP Developer / Good knowledge of Databases, Ensure adherence to financial and procedural rules/laws, Define and execute business strategies, respond to tenders and requirements, take part in sales and marketing activities, Requirement gathering and understanding, making code level designs, low-level architecture, Development of software components, testing tools, test cases, Deployment and system/software troubleshooting, Testing and ensuring standard compliance of different software/systems, Contribute to all phases of SDLC / PDLC, Interaction with users/clients and stakeholders, Work with team as well as have independent delivery capacity, Delivery of artifacts/documents/manuals	The Incumbent would operate as full time Theory/ Lab Faculty and help the students in course delivery and lab session for all the modules of the course Required to do overall coordination of the course, scheduling, setting of question paper, lab assignments and evaluation of Lab Exams as per expertise.  Delivering theory and lab sessions for the PG Diploma courses. Also mentoring and guiding the students for project work.	Research analysis of handling Protein databases and Data Analysis Molecular Modeling simulations Algorithms Numerical modeling development, Real time weather forecast, weather data management, development of Scenario based forecasting tool. Hydrology model, scenario development and simulations, Hydrology database generation and management Air Quality CFD model and scenario development and simulations, Air Quality -CFD database generation and management Parallel computing and HPC simulations.  Domain related Project work mainly research and development in earthquake seismology Technical report writing, paper writing and presentations. Domain related project work mainly research and development in HPC seismic data processing algorithm. To guide the team of developer for field data related fine tuning of application and algorithm design. Technical report writing, paper writing and presentations  CFD- Heat Transfer applications and simulations on HPC	Patent Engineer



