Domain Expertise (Technical)				
Project Engineer - (0-5 years expereince)	**Domain 1**	**Domain 2**	**Domain 3**	**Domain 4**
Domain Expertise	**Software Development, Web Development**	**Marketing Coordination , Faculty, Course Coordination, Placement Coordination,**	**Hardware Development**	**Environment Science, Computational Fluid Dynamics, Hydrology, Bio Informatics, Patent Engineering**
No. of Requirements	42	4	2	15
Skill Sets (Single or Multiple)	**Web Technologies :** Ajax, AngularJS , ASP.Net,Bootstrap, HTTP,HTML, JavaScript,Jquery, Json, JSP, Knowledge on building RESTFUL and SOAP web services, Web Services,XML **Languages :** C, C++, C#,J2EE, JAVA,OOPS, PHP, Python, Scripting Language (PBS, SLURM), SERVLETS, Writing query **Databases :**MySQL, Oracle,PostgreSQL, MongoDB, Microsoft SQL Server, Microsoft SQL Server 2008 /2012/2018 **Framework :**Android and Joomla , .Net,MVC 4.0,Qt Framework,Spring,Struts **API :**Parallel Programming with MPI , Parallel Programming with Open MP,Web API **JAVA API :** EJB,Hibernate, JDBC **Machine Learning** : Natural Language Processing, Neural Networks, Machine Learning **Web Servers** : Jboss,Tomcat **HPC** : HPC Accelerators such as GPGPUs, HPC Accelerators such as Intel Xeon Phi **OS** : LINUX **Software Design :** Design Patterns 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 skillsGood Team Player, Good written & verbal communication skills in English, Knowledge of Punjabi Language will be an added advantage,	Good written & verbal communication skills in English, Good interpersonal skills ,Problem Solving Skills ,Office Automation Tools , Konwledge of Advanced Database, Bigdata Technologies, Business Analytics, IT Infractstruce, HPC	Strong aptitude towards hardware design, Digital design using VHDL or Verilog ,Overall understanding of RTL based development including coding, Module level verification, Synthesis and timing Closure, Fresh engineers must have executed at least one academic project requiring expertise in these fields.	Knowledge of atmospheric/Ocean/Hydrology/Air Quality/ CFD Modelling. WRF, WRF-Chem, WRF-Hydro, OpenFOAM Urban Modelling and simulations,Model Data visualization using GRADS/NCL or any, Parallel computing and HPC,Hydrological Modeling,Computational Fluid dynamics,GIS ,Remote Sensing, Knowledge of CFD models,CFD- Heat Transfer simulations, Knowledge of HPC and parallel programming, Bioinformatics tools and databases ,Microarray data analysis, Simulations ,Scripting language like Perl, shell scripting, familiarity with Linux environment desirable, Knowledge of Intellectual Patent laws, Experience using various IP database, Conducting searches for identifying relevant products and technical analysis of the documents/literature related to the new system, Rating/ranking of patents based on the similarities and/or differences identified with the relevant products, Conducting prior art analysis, landscapes, Claim mapping, and state of art searches, Strong analytical skills with basic understanding of diverse technology domains, Excellent comprehension skills and ability to learn quickly.

Project Engineer - (0-5 years expereince)	Domain 1	Domain 2	Domain 3	Domain 4
Domain Expertise	**Software Development, Web Development**	**Marketing Coordination , Faculty, Course Coordination, Placement Coordination,**	**Hardware Development**	**Environment Science, Computational Fluid Dynamics, Hydrology, Bio Informatics, Patent Engineering**
No. of Requirements	42	4	2	15
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	Coordination with companies and students, Conduction of Placement Programme, Coordinating the various student activities, to enhance their employability, Good Understanding of Technologies in ICT with excellent problem solving skill, Liaison with University and Educational Institution and understand the training requirements of the existing students or need for integrated Diploma or Certificate courses or Collaborative Masters Programme, To interact with the under graduate students to promote PG degree awarding Programmes, Integrated Diploma and Certification programmes, To participate ibn IT or Educational exhibition, conferences to showcase C-DAC course. To support placement team for pre- placement activities, To ensure that follow-up is done through calling, mailers and SMS campaigns to the prospective candidates periodically for conversions, Prepare report and submit to management, The incumbent would operate as full time Theory/Lab faculty and help the students in course delivery & lab sessions for all the modules of the courses, setting of question papaer, lab assignments and evalution of Lab exams as per expertise, courses will be conducted in different locations of India so candidate should be willing to travel and relocate.	Understanding high level hardware architecture, strategies to translate the architecture in efficient and synthesizable blocks RTL coding, validation (module level), understanding area and timing constraints and tuning architecture for satisfying the project goals	Urban Model 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. Early warning flood prediction system, CFD- Heat Transfer applications and simulations on HPC, Research analysis of Next Generation Sequence Data Analysis Comparative genomics/ Molecular Modeling simulations/Algorithms, Patent Engineer