



# इन्दिरा गांधी राष्ट्रीय जनजातीय विश्वविद्यालय

(संसद के अधिनियम के अधीन स्थापित केन्द्रीय विश्वविद्यालय)

## INDIRA GANDHI NATIONAL TRIBAL UNIVERSITY

(A Central University established by an Act of Parliament)

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### ADVERTISEMENT

#### **RECRUITMENT OF VARIOUS POSITIONS UNDER A MeitY SPONSORED PROJECT**

Applications are invited in prescribed format from eligible Indian Nationals possessing consistently knowledge, skillup, dedication towards target and requisite qualifications and experience for engagement of the following contractual positions sponsored by Ministry of Electronics and Information Technology Project entitled “**Development and Deployment of KISAN Cloud using Electronic Soil Nutrients Analyser (ESNA) and Capacity Building of ST Masses on SmartAgri and Livelihood Entrepreneurship for Self-Employment**”. An online walk in interview will be conducted on 08/07/2020 and 09/07/2020 from 10.30 AM onwards consequently information about appearance technique, time and online link will be sent to you by email. The posts are on purely temporary basis for one year and it may be extended for another one year subject to availability of fund or your performance. Particulars in detail are as follows:

<b>Sl. No.</b>	<b>Name of the Post</b>	<b>Number of Post</b>	<b>UR</b>	<b>OBC</b>	<b>SC</b>	<b>ST</b>	<b>EWS</b>	<b>Consolidated Emolument (Per Month)</b>
01	Chief Coordinator	01	01	-	-	-	-	Rs. 40,000/-
02	Zonal Coordinator	04	03	01	-	-	-	Rs. 25,000/-
03	Cloud Developer	02	02	-	-	-	-	Rs. 25,000/-
04	IoT Engineer	01	01	-	-	-	-	Rs. 20,000/-
05	Agro Engineer	01	01	-	-	-	-	Rs. 20,000/-
06	Electronic Engineer	01	01	-	-	-	-	Rs. 20,000/-
07	Food Engineer	01	01	-	-	-	-	Rs. 20,000/-
08	Dashboard Manager	01	01	-	-	-	-	Rs. 16,580/-
09	Startup Manager cum Law Officer	01	01	-	-	-	-	Rs. 25,000/-
10	Marketing Professional	01	01	-	-	-	-	Rs. 25,000/-
11	Professional Instructor	12	07	03	01	-	01	Rs. 12,000/-
12	Sensor Engineer	03	03	-	-	-	-	Rs. 50,000/-
13	Agro Scientist	02	02	-	-	-	-	Rs. 50,000/-
<b>Total</b>		<b>31</b>	<b>25</b>	<b>04</b>	<b>01</b>	<b>-</b>	<b>01</b>	

The qualification and responsibilities for above mentioned various post are given as follows:

S. No.	Designation of post/ Cadre	ELIGIBILITY CRITERIA
1	<b>Chief Coordinator</b>	<p>ESSENTIAL CRITERIA: Master's degree in science stream (P/C/M) from a recognized University with minimum 45% marks and also have M.B.A degree and PGDCA.</p> <p><b>Experience:</b> At least 09 years of work experience in Union /State Government Ministry in form of Assistant Private Secretary / P.S./P.A.</p> <p>DESIRABLE CRITERIA: Certified Stenographer in Hindi.</p> <p>AGE : Not exceeding 50 years.</p>
<b>Role, Duty and Responsibilities of Chief Coordinator</b>		
<ol style="list-style-type: none"> <li>1. The project is in two parts, the first part is of research &amp; development and the second part is related to the entrepreneurial/Startup training. The Chief Coordinator is responsible for coordinating both the part of the project, according to this responsibility, they will update the day-to-day work of each staff of the project on the daily basis at dashboard of project. They will also have to handle all types of files and correspondence with PI.</li> <li>2. In the project, KISAN Cloud is to be developed in research and development as well as soil testing device ESNA is also to be developed. For this, several departments of the Government of India have to get the data validated. The Ministry of Earth Science and Ministry of Agriculture both will also be responsible for providing and fetching various types of data. <b>For this, communication with various departments of Union Ministries will have to be done in very effective manner.</b> Communication from the Government will have to be established under soil health card scheme an important scheme of the Government of India and establishing contact with them according to the project's requirement. Thus, the Chief Coordinator of the project will also have the responsibility to interact with various departments / ministries of the Union / State Governments and from there to get the data or other support that suits the requirement of the project. During the establishment of the entrepreneur / startup, several Ministries of the Government of</li> </ol>		

India and the State Governments and public representatives have also been established to provide resources and support as needed. Therefore, there is a need for an experienced warrior who has experience of working in the Union Ministry (Government of India) and the State Government Ministry for at least nine years.

3. Maintain and develop connection with the different Ministry of Union Government / State Government/RBI /GO Agency for acquiring data innovation, fetching data and cooperation towards helping identify opportunities for support and build capacity for MSME entrepreneur/Start-ups across the Government schemes consequently plan with government counterparts.
4. Facilitate coordination between Government and as well as industrial and civil society partners to ensure interaction and outreach as listed below:
  - Demonstrating/safeguarding ethics and integrity of outcome of project,
  - Demonstrate corporate knowledge and sound conclusion;
  - Self-development, initiative-taking;
  - Acting as a team performer and facilitating with Governmental issues;
  - Strong leadership and managerial skill with track records of management roles in a team of multi-diversity background in Governmental activities;
  - Facilitating and encouraging open communication in the team, communicating effectively;
  - Creating synergies through self-control;
  - Learning and sharing governmental policies;
  - Supporting /sharing to transfer data and to build relationships with government authorities and other stakeholders to provide requisite data to this project;

2	<b>Zonal Coordinator</b>	<p><b>ESSENTIAL CRITERIA:</b> Master's degree from a recognized University with minimum 45% marks.</p> <p><b>Experience:</b> At least 15 years of work experience in Industry having entrepreneurial experience.</p> <p>or At least 03 years of work experience having MBA.</p> <p><b>DESIRABLE CRITERIA:</b> Proficiency in MSME-DPR preparation for various NSQF sectors and also required to submit at least 06 DPR for different Start-Up Sectors along with application form.</p> <p>AGE : Not exceeding 50 years</p>
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**Role, Duty and Responsibilities**

1. Zonal Coordinators (ZC) are people with an excellent entrepreneurial mindset having thoughts for sustainable and inclusive growth of youth India through growing indigenous MSME/start-ups as livelihoods opportunities. Zonal coordinators keep detailed knowledge about various schemes of the Government of India like: MSME

Initiatives, Self-reliant India mission, Start-ups & stand up india scheme, Indigenous production with global quality standard, Credit-Linked Capital Subsidy Scheme, Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE), Prime Minister's Employment Generation Programme (PMEGP), Marketing Promotion Schemes, Entrepreneurship and skill Development Programme, Infrastructure Development Programme, Micro & Small Enterprises Cluster Development Programme (MSE-CDP), Scheme of Micro Finance Programme and other similar scheme and entrepreneurial information flowing seamlessly. They need both technical know-how of entrepreneurial training and first-hand knowledge of the tasks they assign to professional instructors and others to keep the project moving forward efficiently and successfully. Zonal Coordinators will have to work with robust ideology and clear intention so that low technology goods can be imported in small quantities from various countries and one by one various components will get localised which means we have to get a local manufacturer consequently ZC have to make effective action plan towards opening indigenous enterprises and encourage youth for this. We will have able to move in this direction and made us export ready and India will become an export hub. The slogan SCC :“Self Reliant India-Capable India-Competence India” of this project also serves similar purposes. Startup training in the project will be conducted in four different zones, in which the Zonal Coordinator is responsible for coordinating the communication to rural, semi-urban and urban area as per requirement of the entrepreneurial training of the project. Zonal Coordinator will also have the responsibility to inspire professional instructors and other staff for all types of communication related to training and providing micro essential feature to carry out the project.

2. Zonal coordinators create a clear and concise plan to both execute the project and monitor progress of entrepreneurial training via organizing and motivating a project team, cost estimating and developing the budget for proposed DPR of trainees, analyzing and managing project risk of trainee, managing DPRs, necessary documentation for company registration, monitoring loan progress, controlling time management for EPC. Zonal coordinators are highly motivated and effective leaders, great communicators, excellent time managers, good organizers, reliable, and trustworthy. They are responsible for the whole scope of the project, resources, team, and the success of the project with the complex nature of dynamic environments. Although the zonal coordinators help in building a healthy communication and trust among the project staff and surrounding concern group and strives to ensure good practices for the success of this project.
3. It will be the responsibility of the zonal coordinators that they will arrange execution environment for flexi MOUs among surrounding educational institutions, financial institutions, banks, government institutions, social institutions etc. for the purpose of trainees of their zone consequently they will also strengthen entrepreneurship training by organizing sensitization programs and workshops along with these institutions with prior permission and direction of project authority.
4. It will also be the responsibility of the zonal coordinators that they will correspond with government and non-government officials, top officials of popular industries, media persons, regional public representatives and other authorities as it may believe

fit for the purpose of effective entrepreneurship training and sensitization of trainees so that the project can be benefited.

3	<b>Cloud Developer</b>	<p><b>ESSENTIAL CRITERIA:</b>  Master's degree in Computer Science / application /IT from a recognized University with minimum 45% marks or B.E. in Computer Science / application /IT /EE/ ETC from a recognized University with minimum 65% marks.  and  Cloud Certification in Azure / AWS/ Google</p> <p><b>Experience:</b>  At least 06 years of work experience in Software Industry having technical experience and good knowledge in:</p> <ul style="list-style-type: none"> <li>• C#, HTML 5, ASP. NET, WPF, WIN FORM, ASP.NET MVC, Angular JS, Angular7, Web Services, SQL, ADO.NET, Web Forms, SQL Server,</li> <li>• AWS, Azure DevOps, Net core.</li> <li>• Web API, and Client Side Scripting like JavaScript, XAML, ColdFusion, FW1.</li> <li>• Experience in writing database objects (Stored Procedures, Functions, and Triggers).</li> <li>• Awareness of WCF, Web API (Web Services).</li> <li>• Experience in developing and deploying applications in servers.</li> </ul> <p><b>DESIRABLE CRITERIA:</b>  At least 3 Years of experience as leading skillset as cloud solutions architect.</p> <p>AGE : Not exceeding 40 years.</p>
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**Role, Duty and Responsibilities of Cloud Developer**

1. In this project a KISAN Cloud is being developed which will give all the information related to agricultural work to the farmers only by GUI clicking. This GUI of this cloud will work in English as well as in Hindi language. The technology used for cloud is artificial intelligence and It will have the capability of machine learning. There are two cloud developers required: 1) Azure certified - cloud developer 2) AWS certified - cloud developer.
2. Both cloud developer designs and develops secure cloud applications, services, and KISAN cloud. This can include everything from back-end, front-end, web

application, full-stack, data and application integration, and cloud application deployment.

3. Cloud developers will have around 6 years of experience in Cloud Solution Architect with a focus on Development of Web architectures specifically on .NET, J2SE 6.0, J2EE 1.4, MDM, Cloud Transformation. He has extensive experience with followings:

Cloud Native Stack: Docker, Kubernetes, Openshift, Terraform

Scripting Knowledge: Maven, PowerShell, Ant & Java Script, jQuery, JSON, HTML5, CCS3,

Cloud: Amazon AWS and Microsoft Azure

Versioning Systems & ALM/CI: SVN, CVS, TFS, VSS, ALM Framework, Cruise Control

Presentation Layer Programming: Servlet, JSP, SPRING MVC, ASP.Net, STRUTS,

Middle Layer Programming: EJB, XML, Web services, RMI, CORBA, Web API

Database Programming: Oracle, SQL server, Sybase, My SQL

Modeling & Design: UML with Ration Rose, Ratio Software Modeler, OOAD

Framework: JAP, ALM, SPRING, MVC, Common STM, Canoo, ULC, STRUTS, Hibernate, AJAX

Application Servers, Weblogic 10x (Main Skill), IIS, Tomcat

Business Rules Management/BRMS: ILog JRule 7

Tools: IDEs MS Visual Studio, Eclipse, RSM, RSA, IDEA, Eclipse (Rule builder), WinCvs, QMB, Toad.

4	<b>IoT Engineer</b>	<p><b>ESSENTIAL CRITERIA:</b>            B.E. /B. Tech in Electronics &amp; Communication/            Electrical &amp; Electronics / Instrumentation/            Biomedical / Computer Science/ Information            Technology from a recognized University with            minimum 65% marks or Master's degree in            Electronics/ Instrumentation/ Computer Science/            Information Technology from a recognized            University with minimum 65% marks.</p> <p><b>Experience:</b>            At least 05 years of work experience in IoT related            Industry having Business Intelligence and Machine            Learning based product designing, Deep Learning            and developing Hardware Interfacing devices            especially android based app and Mobile UI.</p> <p><b>DESIRABLE CRITERIA:</b></p>
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		<p>Proficiency in IoT system development and submit architectural design for proposed ESNA system along with application form.</p> <p>AGE : Not exceeding 40 years</p>
<p><b>Role, Duty and Responsibilities of IoT Engineer</b></p>		
<ol style="list-style-type: none"> <li>1. While developing the ESNA soil test kit, an IoT Engineer is required to design signal web-form and develop interface along with the KISAN cloud. He is also responsible for white box and black box testing of interface data. This IoT Engineer will develop a medium API that will make this kit the same as an input device of Agroinformatics.</li> <li>2. IOT engineer have knowledge with combination of different technologies like sensors, communication technologies, networking protocols, cloud technology etc consequently by using technology the fertility of soil can be verified using various sensors including colorimetry method. Temperature/humidity sensor, pH sensor, and NPK sensor are used. Sensed data is sent to server and stored on database, then information is sent to farmers mobile with soil nutrients present and type of crop they can grow to gain better yield.</li> <li>3. In this role, IoT Engineer would be responsible for continuously improving ESNA device frameworks, testing and QA processes and building new exciting functionality with dynamic IoT, Computer Vision and MEAN technology stack, resolving complex soil nutrients analysing issues with certification in Agile, Scrum, HW-SW co-design.</li> <li>4. What are the role of IoT technology that can play vital role for establishment of any new MSME/Start-ups and what newness can bring towards proposed MSME with IoT technology? The IOT engineer will have the task of documenting how all such IoT technology can be created for each and every proposed proposal of MSME by trainees and how it will used in writing the DPR for said project.</li> </ol>		

5	<b>Agro Engineer</b>	<p><b>ESSENTIAL CRITERIA:</b> BE/B.Tech in Agricultural Engineering from a recognized University with minimum 55% Marks.</p> <p><b>Experience:</b> At least 04 years of work experience in GENERAL AGRICULTURAL ENGINEERING / FARM POWER &amp; MACHINERY/ PROCESSING AND FOOD ENGINEERING.</p> <p><b>DESIRABLE CRITERIA:</b> Experience as solutions developer in leading Agro Industry.</p> <p>AGE : Not exceeding 40 years.</p>
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**Role, Duty and Responsibilities of Agro Engineer**

- Job Duties and Tasks for: " **Agro Engineer** "
1. While developing the ESNA soil test kit, an engineer in the field of soil science and engineering will be appointed, its designation will be called Agro Engineer. Its function is to evaluate and test the actual condition of the soil and their corresponding fertility, thereby maintaining the importance and accuracy of the ESNA soil test kit. Through this, research will be done to determine 14 different parameters for the fertility of soil of different places.
  2. Design agricultural framework and observe various condition, using ML technology and monitor KISAN Cloud composition activities in form of data.
  3. Design agricultural components like Selection of Seed Varieties according to Nutritional condition (NPK and other) of soil, Field operation equipment, Nutritional Disorder, Fertilizer Management, Seed Sowing, Weed Management, Irrigation Management, Disease Management, Insect Management, Inter Cultural Operation, Harvesting and Threshing, Post-Harvest Skill, Store & Pesticide management.
  4. Using AI and ML technology that can help them improve agricultural productivity.
  5. Simulate agricultural machinery and equipment to forecast adequate functioning.
  6. Design structures and supervise environmental and land reclamation for agriculture.
  7. Provide advice on water quality and issues related to rain water storage, pollution management and ground and surface water resources.
  8. Prepare reports, sketches, working drawings, specifications, proposals, and budgets for Agro businesses.
  9. Design food processing plants, simulate food processing/ manufacturing plant operations and related mechanical systems.

6	<b>Electronic Engineer</b>	<p><b>ESSENTIAL CRITERIA:</b> BE/B.Tech in Electronics / Electrical Engineering from a recognized University with minimum 55% Marks.</p> <p><b>Experience:</b> At least 06 years of work experience in Electronics Industry as instrument and electronic colorimeter, chemical transducer developer.</p> <p><b>DESIRABLE CRITERIA:</b> Experience as instrument developer in leading Electronics Industry.</p> <p><b>AGE :</b> Not exceeding 45 years.</p>
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**Role, Duty and Responsibilities of Electronic Engineer**

Job Duties and Tasks for: "Electronics Engineers"

1. Review and design circuit for Electronic Soil Nutrients Analyser (ESNA) equipment, assembling of ESNA system and installation and interfacing with KISAN cloud.
2. To Develop ESNA soil testing kit it will also require an electronic engineer who will develop various electronic sub-devices. Since the developed ESNA kit will be a fully electronic, so an electronic engineer will be required to design and develop photo sensing device, transducer, colorimeter, photo resistor etc.
3. Design electronic components and software for different plans for DPR of newly introduced MSME for trainees of project and design products and systems for commercial, industrial, medical electronics, Agro electronics and renewable electronics applications based projects.
4. Direct and coordinate activities concerned with EPC-construction, installation, maintenance, operation, and modification in DPR wrt electronic equipment, products, and systems. Prepare, review, and maintain maintenance schedules, design documentation and operational reports and charts for DPR.
5. Provide technical support and instruction to trainees regarding equipment standards, and help solve specific, difficult in-service engineering problems for correctness of DPR of trainees.
6. Prepare engineering sketches and specifications for EPC of MSME/startups installation with feasibility study. Also plan to develop QR applications for products and systems, to improve believe system performance.
7. Operate computer-assisted engineering and design software and equipment for newly introduced MSME for trainees of project to perform best EPC tasks.

8. Analyze system requirements, capacity, cost, and customer needs to determine feasibility of MSME project and develop system plan for DPR of trainees.
9. Inspect electronic equipment, instruments, products, and systems to ensure conformance to specifications, safety standards, and applicable codes and regulations for newly introduced MSME for trainees of project.
10. Evaluate operational systems, prototypes and proposals and recommend design of EPC for MSME based on factors such as environment, service, cost, and system capabilities.
11. Prepare documentation containing information such as project descriptions and specifications of proprietary hardware and software, product development and introduction schedules, product costs, and all other information about DPR of trainees for establishing MSME.
12. Prepare necessary criteria, procedures, reports, and plans for successful conduct of the program/project with consideration given to site preparation, facility validation, installation, quality assurance and testing.

7	<b>Food Engineer</b>	<p><b>ESSENTIAL CRITERIA:</b> BE/ B.Tech. in Food Process Engineering from a recognized University with minimum 55%. Marks.</p> <p><b>Experience:</b> At least 04 years of work experience in Food Process industry.</p> <p><b>DESIRABLE CRITERIA:</b> Experience as food process solutions developer in leading Food Industry.</p> <p><b>AGE :</b> Not exceeding 40 years.</p>
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**Role, Duty and Responsibilities of Food Engineer**

**Need to do**

1. The training part of this project comprises large portion of both agro based MSME/startups and food processing based MSME/startups and formulating new production processes or stages within processes using design models to develop processed food business. In which necessary training and research will be done by Food Engineer to get new food product development from concept to marketplace with view of domestic and abroad quality license i.e. FSSAI license and increase the quality of food based product MSME/startups. Necessary exercise will also be provided by the Food Engineer for processing international level food products via MSME/startups and generating ideas for new products and researching feasibility in terms of profitability, resource availability and compliance with regulations. Food Engineer researching on new food processing MSME/industries and preparing new

and emerging food products according to market demand so that the trainees can setting up high demanding food processing enterprises and the trainees become successful FMCG food entrepreneurs. Food Engineer who utilize the latest innovative technology to process, package, preserve and improve food products. Their works combine such as agricultural and food processing industry to ensure food safety, supply, nutrition and value.

2. The Food Engineer will have to do liaising from big industry for establishing franchising MSME. With a population of India is poised to become the second-largest consumer market and consumer spending in India is expected to grow from US\$1.8 trillion at present to nearly US\$6 trillion by 2030. This makes India a huge potential market for local food brands, as well as for in-house entrepreneurs. Moreover, India offers vast opportunities for franchisors, thanks to the surging entrepreneurial instincts of its people. These new entrepreneurs are very receptive to liaising with top FMCG food industry's franchises. More entrepreneurs are associating with brands that assure a relatively higher rate of success with view of local production. Besides, franchising is not only a great way to encourage self-entrepreneur, it also is a big opportunity generator.
3. Food engineer generally need strong problem-solving skills, effective verbal and written communication and well-developed organizational abilities. Food engineer should be knowledgeable about food process engineering, the chemical and physical properties of foods, microbiology and have an understanding of how machinery works with food products.
4. Food engineer may do: create new techniques for food processing, packaging and preserving food, test the process and the utilization of food equipment, develop and design new food equipment, research and create new foods and pharmaceutical products offer marketing and technical support for food manufacturing companies. Problem solve to develop solutions for food challenges related to supply and preservation throughout the domestic and global demand.
5. Food engineer may also do: Designing the ready to eat food processing, handling, and packaging of food inclusive of storage equipment and systems, scale-up of prototype food processes, machinery, and equipment, product/process research and development, regulation and protection of the public health.

8	<b>Dashboard Manager</b>	<p><b>ESSENTIAL CRITERIA:</b>  Master's degree in Computer Science / application /IT from a recognized University with minimum 45% marks or B.E. in Computer Science / application /IT /EE/ ETC from a recognized University with minimum 65% marks.</p> <p><b>Experience:</b>  At least 04 years of work experience in Industry having dashboard management experience and good knowledge in:</p> <ul style="list-style-type: none"> <li>• Web administration with HTML 5, Web CMS and Web Forms management.</li> </ul>
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		<ul style="list-style-type: none"> <li>• Familiar with AWS, Azure Cloud</li> <li>• Experience in developing and deploying web applications.</li> </ul> <p>DESIRABLE CRITERIA: At least 2 Years of experience as Dashboard Manager.</p> <p>AGE : Not exceeding 40 years.</p>
<p><b>Role, Duty and Responsibilities of Dashboard Manager</b></p>		
<p>The duty of the Dashboard Manager is to report on daily basis what has been done in the project every working day via online (project's web site). Ensure accuracy of data and deliverables of reporting staff with comprehensive project policies and processes.</p> <p>Every day till evening, Dashboard Manager will prepare a brief report and extract all reports from panel of the work done for each and every project staff completed by today. The status of trainees who were registered in the project, exercise for those trainees will also have to be updated on daily basis. Build, develop and maintain data models, reporting systems, data automation systems, dashboards and performance metrics support that support key project decisions. Day by day innovation concerning project research and development activities and what happened in today is also updated by Dashboard Manager. Feeding data online, providing data on demand will be done by Dashboard Manager. All work will be done by online on the project's web site. View all the logged on the dashboard accordingly update dashboard panel and message boxes. Lead cross-functional activities using advanced data modeling and analysis techniques to discover insights that will guide strategic decisions and uncover optimization opportunities towards six steps entrepreneur training activities. Examine, interpret and report results of trainees as leadership towards MSME, startups technology, marketing strategies for trainees and vocal strategies for local products. Anticipate future demands of initiatives related to project staff, R&amp;D activities, and entrepreneur training and implement solutions to meet these needs.</p>		
9	<p><b>Startup Manager cum Law Officer</b></p>	<p>ESSENTIAL CRITERIA: Bachelor of Legislative Law (LLB) from a recognized University with minimum 55% marks and also have Engineering Graduate degree.</p> <p><b>Experience:</b> At least 03 years of Industry work experience.</p> <p>DESIRABLE CRITERIA: Proficiency in private limited company registration process, scrutiny of DPR and loan forms, Startup registration etc.</p>

		AGE : Not exceeding 40 years.
<b>Role, Duty and Responsibilities Startup Manager cum Law Officer</b>		
<p>The Startup Manager cum Law Officer need to work on following things:</p> <ol style="list-style-type: none"> <li>1. In the training part of this project each trainee has to open a private limited company. Each and every trainee will process the application form towards the Government of India for open a private limited company and startup via consultation of Startup Manager cum Law Officer. After started a private limited company and convert it into a startup company if necessary, for every step a Startup Manager cum Law Officer is required. Working on project portal and attend calls &amp; emails from trainees</li> <li>2. Converting Leads Into Company Formation (Pvt. Ltd. Company, LLP, Partnership, OPC Etc.)</li> <li>3. Basic Registrations (Trademark, Service Tax, Sales Tax, TAN, IEC, FSSAI, ISI, AGMARK, Ecomark, Hallmark, India Organic Certification, Textile marks, BEE Star Rating, The green and red dot Etc.)</li> <li>4. Filing Returns (ITR, TDS, Sales Tax Return, Service Tax Return)</li> <li>5. Need to verify required documents of DPR and loan form of trainees according to Mudra Yojana, Stand-up Business Loan, MSME Loan and time to time interaction.</li> <li>6. Communication with Bank people for clearance of loan form as per norms.</li> </ol>		
10	<b>Marketing Professional</b>	<p><b>ESSENTIAL CRITERIA:</b> Company Secretary (CS) recognized from ICSI with good academic records and also have MBA degree.</p> <p><b>Experience:</b> At least 02 years of Industry work experience as per Role, Duty and Responsibilities.</p> <p><b>DESIRABLE CRITERIA:</b> Graduation with first class in any stream (preferably Commerce/Management) from a recognized University and Chartered Accountant (CA).</p> <p>AGE : Not exceeding 40 years.</p>
<b>Role, Duty and Responsibilities of Marketing Professional</b>		
<ol style="list-style-type: none"> <li>1. During training part of this project each trainee opens a private limited company, when production will be started by that company, then proper marketing platform will be needed for the proper sale of the products produced by that company. It will be required so that his business can run better. Proper training and marketing platform will then be provided to all trainees by the Marketing Professional.</li> </ol>		

2. The Marketing Professional first gain in depth knowledge of local market having research strategies for analyzing competitor of global products (Vocal on Local to compete Global). Marketing Professional should capable and come to know about design of Trademarks and get the trademark registered for different local products. Marketing Professional should also skilled to get national and international quality certification and compile information about the global's products and design strategies in such a manner that they are able to stay ahead of the global competitors. Develop, maintain and draft application materials like PowerPoint presentations, DVDs and literature as how to products are specified, apply products and attain different codes and quality standards needs.
3. Marketing professional analyze the data and study the needs and preferences of the customers. They promote the FMCG local products so as to reach maximum customers. They may also be involved in designing the marketing material necessary for the promotion of the product. Select local products and develop new trademark to attain domestic demand chain.
4. Marketing professional should identify opportunities and execute marketing campaigns and to be responsible for the total system and architecture level solution that includes partner solutions, joint engineering architectural definitions as well as identification of new MSME business development.
5. Marketing professional should provide technical plus application information to create, update and present marketing collateral that includes technical presentations, data sheets, case studies, etc.
6. Marketing professional should create demonstrations that highlight the key values of FMCG local product and prepare instructional, descriptive and application literature for existing and new products along with competitive global products' periodic reports.
7. Collect and maintain competitive information to present complete market evaluation for specific products. Participate to develop and introduce new products' process.
8. Marketing professional should work with feature comparisons of local vs global products, bench marking, quality comparison as well as provide engineering guidance on enhancing the features and fixing the bugs for new products and enhancements.
9. Marketing professional should be capable to identifying the appropriate local market opportunity to with economic and competitive strategies effectively.

11	<b>Professional Instructor</b>	<p><b>ESSENTIAL CRITERIA:</b> Bachelor's degree in in any stream from a recognized University with minimum 45% marks.</p> <p><b>Experience:</b> At least 01 years of work experience related to start-ups.</p> <p><b>DESIRABLE CRITERIA:</b> Knowledge of taking online classes and familiar with web tools.</p> <p><b>AGE :</b> Not exceeding 40 years.</p>
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**Role, Duty and Responsibilities of Professional Instructor**

1. The most important for imparting entrepreneurship training is that the professional instructor has better knowledge of the establishment of the emerging sunrise FMCG industry. There are some important sectors which produce goods in use every day and around 15000 products are known to be manufactured in these FMCG sectors i.e. Social science sector and social service industry, Medical electronics, Chemical & Chemical Products, Agro Equipment and Machinery Manufacturer, Electrical Machinery & Parts, Machinery & Parts Except Electrical goods, FPC Agro/Horticulture sector, Basic Metal Industries, Hardware MSME, Handicraft sector, Drinks & Beverage sector, Bamboo Work sector, Glass work sector, Paper Products & Printing-Stationary Products, Cosmetics products, Healthcare Products, Hosiery & Garments - Wood Products-Textiles sector (Wool, Silk, Synthetic Fibre Textiles, Jute, Hemp and Mesta Textiles), Cotton Textiles, Sports Items, worship products, Transport Equipment & Parts-Tours & Travels sector, Rubber & Plastic Products, Leather & Leather Products, Non-metallic Mineral Products, Food Processing sector, Spices and ready to eat Food Products, Miscellaneous Manufacturing Industries, Other Services & Products, Repair Services. The professional instructor should know in detail how to make a DPR for establishing MSME-FMCG proposal for aforementioned Small Scale sector.
2. It will be the duty of Professional Instructor(s) to provide thorough list of MSME / start-ups to the trainees based on the availability of raw materials in their area and according to their interest prepare a detailed project report (DPR) for establishing the trainees' MSM enterprise, which will include all particulars as per PMY/MSME Loan/ Stand-up business loan. The DPR include all facts as par project proposal to

ascertain the prospects of the proposed plan/activity. The DPR contains detailed information about: Land & structure required, Manufacturing Capacity per annum, Manufacturing Process, Machinery & equipment along with their prices and model specifications and quotation, Requirements of raw materials, Power & Water required, Manpower needs, Marketing opportunity, Cost of the project and production, Financial analyses & economic viability of the project.

3. To get the necessary loan to set up the MSM enterprise in form of Partnership Firms or Sole Proprietorship Firms or Private Limited Companies the Professional Instructor should be proficient in preparing the detailed project report DPR as per the guidelines of the bank as well as union / state government. Professional Instructor should go through general conditions for getting financial assistance are: Eligibility criteria of trainee, Technical /Economic viability, Promoters contribution, Capacity to repay loan, Collateral securities/guarantee and also prepare major inputs which are required for setting up an enterprise like :Project Selection, Technology and Machinery, Arranging Finance, Unit Development, Approvals, Clearances, Quality Certification etc.
4. Professional Instructor should know in detail the various schemes of the Government of India to establish the MSM enterprise / start-ups like: stand up india scheme, Credit-Linked Capital Subsidy Scheme, Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE), Prime Minister's Employment Generation Programme (PMEGP), Development of Khadi, Village and Coir Industries, Technology Upgradation and Quality Certification, Marketing Promotion Schemes, Entrepreneurship and skill Development Programme, Infrastructure Development Programme, Micro & Small Enterprises Cluster Development Programme (MSE-CDP), Scheme of Micro Finance Programme and other similar scheme. The overriding reason for anyone to think of establishing a MSME unit can be summarised and to provide a product or service in a manner to generate sufficient surplus, then one way is to start up a MSME unit.
5. Professional Instructor should have detailed knowledge and experience in approving process of various financial assistance in form of loan from Bank for setting up the MSM enterprise. For example: MSME Loan Schemes -Mudra Loan, CGTMSE, PMEGP, MSME Business Loans in 59 Minutes & CLCSS scheme etc.

12	<b>Sensor Engineer</b>	<p>ESSENTIAL CRITERIA:</p> <p>Master's degree in Sensor Engineering /Computer Science / application /IT from a recognized University with minimum 55% marks or Bachelor's degree in Sensor Engineering / Computer Science / application /IT /EE/ ETC from a recognized University with minimum 65% marks.</p>
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		<p>and Sensor Engineering / Cloud Certification.</p> <p><b>Experience:</b> At least 05 years of work experience in Sensor Engineering Industry / System Administrator / Academic/ Software Industry having technical experience and good knowledge in:</p> <ul style="list-style-type: none"> <li>• Sensor Engineering</li> <li>• Maven, PowerShell, Ant &amp; Java Script, jQuery, JSON, HTML5, CCS3,</li> <li>• Amazon AWS and Microsoft Azure Cloud</li> <li>• SVN, CVS, TFS, VSS, ALM Framework, Cruise Control</li> <li>• Servlet, JSP, SPRING MVC, ASP.Net, STRUTS,</li> <li>• EJB, XML, Web services, RMI, CORBA, Web API</li> <li>• Oracle, SQL server, Sybase, My SQL</li> <li>• UML with Ration Rose, Ratio Software Modeler, OOAD</li> <li>• JAP, ALM, SPRING, MVC, Common STM, Canoo, ULC, STRUTS, Hibernate, AJAX</li> </ul> <p>Application Servers, Weblogic 10x (Main Skill), IIS, Tomcat Business Rules ,IDEs MS Visual Studio, Eclipse, RSM, RSA, IDEA, Eclipse (Rule builder), WinCvs, QMB, Toad.</p> <p><b>DESIRABLE CRITERIA:</b> At least 3 Years of experience as leading skillset in ESNA device development as sensor technology related industry along with Technical Certification in Hadoop, Bigdata, SAP Hana and Programming language is preferable. It is also required to submit layout design of ESNA system and its compatibility testing.</p> <p>AGE : Not exceeding 50 years.</p>
<b>Role, Duty and Responsibilities</b>		
To detailed analysis of different elements of soil such as ORGANIC CARBON (OC), NITROGEN (N), PHOSPHOROUS (P), POTASSIUM (K), COPPER (Cu), ZINC (Zn), SULPHUR (S), BORON (B), IRON (Fe) ), MANGANESE (Mn), ELECTRICAL		

CONDUCTIVITY pH, Lime Requirement Test for Acid Soil, Gypsum Requirement Test for Alkaline Soil requires three Sensor Engineer to analyse and develop the requisite sensors accordingly. These three Sensor Engineer examine entire chemical property with electric characteristics of soil and accordingly analyse the Fertility and the mechanism of delivering signals to the cloud will be developed.

1. Analyse soil characteristics and available ORGANIC CARBON (OC), NITROGEN (N), PHOSPHOROUS (P), POTASSIUM (K), COPPER (Cu), ZINC (Zn), SULPHUR (S), BORON (B), IRON (Fe ), MANGANESE (Mn), ELECTRICAL CONDUCTIVITY pH, Lime Requirement Test for Acid Soil, Gypsum Requirement Test for Alkaline Soil and classifies soils according to standard types and performs chemical analysis on micro-organism content of soil to determine microbial reactions and chemical mineralogical relationship to plant growth using colorimeter and chemical sensors. Designing and developing new colorimeter and chemical sensors for soil nutrients observation, testing, maintaining and modifying existing systems. Analysing signals in form of data and presenting findings as input of Digital system (KISAN Cloud). Liaising and working collaboratively with Agro Engineer, Agro Scientist and other similar company / institute. with clients, suppliers, contractors and relevant authorities (e.g. the Nuclear Decommissioning Authority). Understanding and ensuring compliance with relevant health, safety regulations and quality standards of ICAR. Writing embedded software for signals generated by ESNA.
2. Design and develop colorimeter and chemical sensors as per investigation and responses of specific soil types to soil management practices, such as fertilization, crop rotation, and industrial waste control.
3. Examine different soils from a diverse range of terrains and geographical locations in order to study their physical composition and chemical properties and they are responsible for collecting and analyzing soil samples to determine whether they are suitable for agricultural, horticulture or medicinal cropping. They have also familiar with Spectrophotometer, Gloss Meter, Light transmittance meter and chemical sensors. Different soil types have different attributes and it is necessary to develop an understanding of the relative attributes and drawbacks of each type.

4. They work both in the field taking readings, analyzing data and assembling colorimeter and chemical sensors and develop APIs using advanced process control (APC), programmable logic controllers (PLC) or supervisory control and data acquisition (SCADA) for interfacing with KISAN Cloud.
5. Research and recommend relevant technologies towards overall technical strategy for ESNA system. Design, development, and operation of monitoring ESNA system including design and implementation of API software and hardware to improve operation of ESNA. Contribute to establishing and implementing best practices to Full stack ESNA engineer. Participate in design discussions and ensure designs are aligned with architecture and roadmap. Working with production Javascript/Typescript application design, development and testing experience including Angular/Node.js framework app using APIs and Database technology.
6. Apart from above, experience in technical training and reporting solution, Business reports, Financial Analysis and banking documentation, domain expertise of Banking and Finance, certification in Automation, experience in creating various Detailed Project reports for banking and lending solution for banking underwriting and Loan processing.

13	<b>Agro Scientist</b>	<p><b>ESSENTIAL CRITERIA:</b> ME/M.Tech. in Agricultural Engineering or M.Sc. Agriculture / Horticulture / medicinal crops from a recognized University with minimum 55% Marks.</p> <p><b>Experience:</b> At least 10 years of work experience in Agriculture / horticulture based industry. Vide experience in soil nutrient testing and soil science industry.</p> <p><b>DESIRABLE CRITERIA:</b> Experience as Agriculture / Horticulture Scientist in leading Agro Industry. Diploma in Commercial cash crop /fruit production/ Vegetable Production. Experience in soil testing and soil conservation consultation, experience in industry related to agriculture, financial export oriented agriculture.</p> <p>AGE : Not exceeding 50 years.</p>
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## **Role, Duty and Responsibilities of Agro Scientist**

Two Agro Scientist are required in this project. Agro scientists develop more cost effective ways of producing agricultural products, trends for modern agriculture activities by researching and experimenting with plant yields, reproduction and nutrition, and farm management. They primarily work in two fields: In basic research, they try to understand the processes behind the growth of crops. In research they turn that knowledge into practical methods for improving food quality. Both types can create new food products. These scientists communicate the advantages of their findings to colleagues, Cloud engineer and the project coordinator through reports and presentations. Agro Scientists [Agro scientist (Agriculture), Agro scientist (Horticulture)] typically do the following:

1. Nurture approaches for agricultural scientific creativities for various crops including Horticulture crops: fruits, vegetables, medicinal crops as per cropping seasons-(i) Kharif and (ii) Rabi (iii) Summer and develop, implement scientific methods of agricultural activities towards Seed Varieties, Field Operation, Seed Sowing, Irrigation Management, Weed Management, Fertilizer Management, Insect Management, Nutritional Disorder, Disease Management, Inter Cultural Operation, Integrated Pest Management, Harvesting and Threshing, Post-Harvest Technology, Pesticide control during Storing Grains accordingly create data for KISAN Cloud for forecasting farmers and study, assess and evaluate agricultural productivity, grains safety and other scientific farming methods. They may work to improve crop yields and advise food and crop developers about techniques that could enhance production. They may develop indigenous ways to control pests and weeds. Finally collects, compiles and analyzes information and writes assessment data for KISAN Cloud. Guiding for preparation of audio and video for overseeing the cultivation and maintenance of plants and crops as mentioned above. It is also required liaising with colleagues likes Agro Engineer, Cloud Developer, Food Engineer, Sensor Engineer and other related areas.
2. Understand the needs of farming and agricultural communities and develop scientific data for KISAN Cloud to address complex problems in agricultural issues also for horticulture crops: fruits, vegetables and medicinal crops.
3. Agro scientist (Agriculture) conduct scientific research on cropping of ancient grains like Barley (Jav), Amaranth (Rajgira, ramdana), Buckwheat (Kuttu, kootu), Quinoa, Oats (Jai, javie), Pearl millet (Bajra), Sorghum (Jowar), Finger millet (Ragi/Marua), Foxtail millet (Kangni / Kakum), Little millet (Kutki), Barnyard millet (Sama/ vrat ka chawal), Kodo, Foxnuts (Makhana), Proso millet (Chena), Tapioca Pearls (Sabudana), Couscous, chia seed (Dawna), basil seed (Tulsi), Bakla pulse (Vicia faba), spelt, einkorn, Teff, Farro and emmer and develop newer scientific methods for cropping of ancient grains and agricultural products accordingly develop scientific data for KISAN Cloud. It is also required to analyze the nutritional content

of food, discover new food sources, and research ways to make processed foods safe and healthy.

4. Agro scientist (Horticulture) conduct scientific research on cropping of various vegetables, fruits, cash crops, plant crops and medicinal crop/ plant and develop newer scientific methods for cropping of horticulture and medicinal crops & corresponding products accordingly develop scientific data for KISAN Cloud. It is also required to analyze the nutritional content of food, discover new food sources, and research ways to make processed foods safe and healthy. Assessing and improving the ways in which farm produce is handled and preserved. Preparation of data about plant breeding, growth, protection, storage, cares for desert plants and succulent plant collection or woody ornamentals such as trees and shrubs. Some specialise in plant breeding and crop improvement. For example, crossing two different plant species enables you to develop a hybrid plant, sometimes with desirable characteristics from each of its 'parents'. Attempt to analysing horticultural yields, operational costs and financial returns accordingly writing and modifying business plans and demands on the horticultural industry for an increasing variety of products, many to be available all year around, with increased resistance to disease and pests. The hybrid crop might have increased resistance to drought, pests and weeds that will make it attractive to people. Others work on ways to tackle the pests, diseases and weeds that affect plants. You could be working for agrochemical companies, developing new pesticides, fungicides and herbicides. With the trend towards organic horticulture, biological methods are of increasing importance, such as introducing insects to eat the pests. Generally, you work to reduce the use of chemicals throughout the industry. For example, this enables you to better predict disease outbreaks, and have more understanding of when to apply pesticides.
5. Prepare data for KISAN Cloud to forecast about improvement the productivity and sustainability of field crops and create new food products and develop new and better ways to process, package, and deliver them. Investigating the benefits of introducing genetically modified (GM) crops also.
6. Homework the composition of soil as it relates to plant growth and create data for KISAN Cloud with integration of ESNA system to improve productivity with less utilization of chemical fertilizer and it seeks to discover ways to improve the quality, quantity, and safety of agricultural products. He/ She examine the composition of soil, how it affects plant or crop growth, and how alternative soil treatments affect crop productivity. They develop methods of conserving and managing soil that ESNA based KISAN Cloud can use.

**General instructions:**

- I. The posts are Purely on Temporary Basis. The selected candidates shall have no claim for appointment on regular basis by virtue of being appointed in temporary basis.
- II. The engagement is for one year subsequently it may be extended for one year based on performance of candidate during project period and project requirement.
- III. Reservation followed as per Govt. of India norms.
- IV. Emolument– Consolidated, as defined.
- V. The eligibility of candidate will be determined as on the date of advertisement. The candidate who fulfils the requirements may submit application form along with Curriculum Vitae and scan copies of Original documents and certificates of qualifications, experience, mark sheet, birth Certificates, and caste certificates, two passport size photographs etc. to prescribed email.
- VI. Applicants are suggested to submit application in a prescribed format along with scanned copy of required documents. Submitting application with incomplete documents will not be entertained for the online interview.
- VII. The statutory provision for relaxing of age, minimum qualification, experience etc. prescribed in case of candidates belonging to SC/ST/OBC/EWS categories will be made applicable to them.
- VIII. The candidate, if employed with any Autonomous/Government or private sector may bring “NOC” from their employer at the time of submission of application form.
- IX. The competent authority reserves the right to postpone/cancel the online Interview at any stage.
- X. The University will have the right to restrict the number of candidates to be informed for online interview, based on the project requirement or by any other condition that it may deem fit.
- XI. Interested candidates may also in their own interest ensure that they fulfil the eligibility conditions. Ineligible candidates will not be considered. Verification of documents will be done during online interview.
- XII. Candidates are requested to see IGNTU’s website on regular basis for any new announcement in this regard.
- XIII. Six working days in a week (Monday to Saturday) for all staff and working hours will be from 10 am to 6 pm on weekdays. This project will be operated in five states other than Madhya Pradesh and for the operation of the project, project centers / project offices will be opened in other states besides Amarkantak (M.P.). Therefore, posting of staff can be done at any project center as per requirement.

Entrepreneurship training related staff will have to give maximum time in the field.

- XIV. Canvassing in any form OR on behalf of a candidate will be a disqualification.
- XV. Candidates have to send duly filled application form in the prescribed format on or before 06/07/2020 at email: [atmnirbharyagya@gmail.com](mailto:atmnirbharyagya@gmail.com)
- XVI. By evening of 07/07/2020, the information regarding web link and time schedule for the online interview will be sent to the candidates on their email.
- XVII. Accordingly, online interview will be conducted from 08 / 07 / 2020 to 09/07/2020 as per schedule.
- Last date of submission of application form: 06/07/2020 Time: 12:00 PM
  - Application submission email: [atmnirbharyagya@gmail.com](mailto:atmnirbharyagya@gmail.com)
  - Date of providing web link and time schedule: 07/07/2020

**Registrar**  
**IGNTU, Amarkantak (M.P.)**