



Haryana Space Applications Centre (HARSAC)
(Citizen Resources Information Department, Haryana)

CCS Haryana Agricultural University Campus

Hisar - 125 004

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Advt.no. HARSAC/HSR/Recruitment/PP/2022/01

ONLINE APPLICATIONS ARE INVITED

Online Applications are invited from the eligible candidates for various posts on contractual basis under different projects. Detail in this regard may be downloaded from HARSAC website (www.harsac.org). The application form duly complete in all respects along with the self-attested photo copies of testimonials / certificates may be uploaded on the URL of Deenbandhu Sir Chhotu Ram University of Science & Technology (DCRUST), Murthal, (Sonipat) i.e. <https://dcrustconsultancy.in> upto **23.12.2022**. The portal will be opened w.e.f. 08.12.2022 and closed on 23.12.2022. The appointment in the projects will be purely on contractual basis and co-terminus with the project or earlier. It will not confer any right on the incumbent to any claim, implicit or explicit, on any post.

Director, HARSAC

The project wise details of posts along with essential qualifications etc is given under :-

1.	Project Name: Rejuvenation of Ponds/Water Bodies in Haryana State by Geospatial-Enabled Systems		
	Post Name	No. of Post	Salary per Month (in Rs.)
	Sr. GIS Developer	01	75,600/-
	Sr. Developer	01	66,150/-
	Android Developer	01	56,700/-
	Project Fellow (PF)	04	25,000/- + HRA (without NET)
			31,000/- + HRA (with NET)
2.	Project Name: Digitization, Geo-referencing & superimposition of Layout Plans, Sajra Plans and development of GIS System for HSVP properties		
	Senior Software Development Officer	01	90,000/-
	Software Developer	01	56,700/-
	Software Tester	01	56,700/-
	Mobile App Developer (android and IOS) developer	01	75,600/-
	Database Programmer / MIS Specialist	02	75,600/-
	Research Associate-III (AI/ ML)	02	54000/-+HRA
	Project Fellow	15	25000/- + HRA (Without NET)
			31000/- +HRA (with NET)
3.	Project Name: Creation of a GIS cell in Municipal Corporation Faridabad (Phase-II)		
	Sr. Software Developer (Application)	01	66,150/-
	Sr. Software Developer (Data)	01	66,150/-
	Jr. Software Developer (Application)	01	37,406/-
	Jr. Software Developer (Data)	01	37,406/-
	Jr. Software Developer (Android)	01	37,406/-
	Jr. Software Developer (IOS)	01	37,406/-
4.	Project Name: Drone Imaging & Information Services of Haryana Ltd.		
	Team Lead (Image Processing)	01	54000/-+HRA
	GIS Technician (Image Processing)	05	31000/-+HRA
	Team Lead (Digitization / Feature Extraction)	02	54000/-+HRA
	GIS Technician (Digitization / Feature Extraction)	10	31000/-+HRA

5.	Project Name: Time Series Mapping of Kharif and Rabi Crops of Haryana - A Geospatial Approach		
	Research Associate -III Specialization: Optical Remote Sensing Data Processing and Analysis	06	Rs.40,000/- + HRA (with essential qualification but not have paper published in SCI Journal)
	Research Associate -III Specialization: Microwave Remote Sensing Data Processing and Analysis	05	Rs.54,000/- + HRA (Revised Salary for fulfilling all the essential qualification#)
	Project Fellow	14	25000/- + HRA (Without NET) 31000/- +HRA (with NET)
6.	Project Name: Mapping of Mining areas of Haryana on Satellite and Geo-referenced Cadastral Maps and delineating its boundary based on pillars using DGPS technology		
	Project Assistant	01	32,000/-
7.	Project Name: Establishment of HARSAC GIS Lab at District Level		
	Project Fellow	07	25000/- + HRA (Without NET) 31000/- +HRA (with NET)
8.	Project Name: Forecasting Agricultural output using Space Agrometeorology and Land based observations (FASAL)		
	Project Fellow	01	25000/- + HRA (Without NET) 31000/- +HRA (with NET)
9	Project Name: Creation and Establishment of GIS Cell in HSPCB, HQ, Panchkula		
	Project Fellow	01	25000/- + HRA (Without NET) 31000/- +HRA (with NET)

Requirement of Manpower in Various projects of HARSAC

1	Name of Project: "Rejuvenation of Ponds / Water Bodies in Haryana"		
	Name & No. of Post	Salary per month (in Rs.)	Qualification
	Sr. GIS Developer (01)	Rs.75,600/-	<p>Essential Qualifications: Graduate or higher degree in Computers/Geospatial technology from any university/Professional Institution recognized by Government with experience in the GIS software's development and applications customization. Minimum 5+years of experience.</p> <p>Desirable work experience:</p> <ul style="list-style-type: none"> •Experience in remote sensing and GIS software's development •Open-source coding •Full stack developer •Team handling •Any relevant certification
	Sr. Developer (01)	Rs. 66150/-	<p>Essential Qualifications: Graduate or higher degree in Computers with work experience in Software development. Minimum 3+years of experience.</p> <p>Desirable: Experience in JAVA script, Dot net, C sharp, understanding of SQL server, Postgress SQL. Development of web-app.</p>
	Android Developer (01)	Rs.56,700/-	<p>Essential Qualification Graduate or higher degree in Computers with work experience in Android/IOS application development. Minimum 3+ years of experience.</p> <p>Desirable: Experience in the development of Android/ IOS applications and GIS applications.</p>
	Project Fellow (04)	Rs.*31,000 + HRA OR Rs.25,000 + HRA	<p>Essential Qualification: 1st class master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in the relevant field i.e. Water Resources/Agriculture/Forestry/Geography/Environmental Science/Mathematics/Physics/Botany/Urban Regional Planning with P.G. Diploma in Remote Sensing/GIS/Geo-informatics.</p>
2	Project Name; "Digitization, Geo-referencing & Superimposition of Layout Plans, Sajra Plans and Development of GIS System for HSVP properties."		
	Sr. Software Development Officer (01)	Rs.90,000/-	<p>Essential Qualification: Graduate or higher degree in Computers/Geospatial technology from any university/Professional Institution recognized by Government with experience in the GIS software's development and applications customization. Minimum 5+ years of experience.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Development of Web and REST APIs with Node Js and .net • Familiarity with the ASP.NET framework, and Express JS

			<p>Node framework, SQL Server and design/architectural patterns</p> <ul style="list-style-type: none"> • Will be Preferred if Experience in location, tracking mobile app APIs & dashboards. • Good skills in bugs resolutions, DB Planning & Designing the architectures • Knowledge of API Documentation process flows & data, speed optimizations in gathering - posting the data from / to the server • Knowledge of ASP.NET, SQL Server, HTML, CSS, JavaScript, and C#, Node Js, Postgres SQL. Prepare and maintain code for various .Net applications and resolve any defects in systems. • Full stack developer • Team handling • Any relevant certification
	Mobile App Developer (android and IOS) (01)	Rs.75,600/-	<p>Essential Qualification: Graduate or higher degree in Computers from any university/Professional Institution recognized by Government with work experience in Android/IOS application development. Minimum 3+ years of experience.</p> <p>Desirable: ExperienceinthedevelopmentofAndroid/IOSapplicationsandGISapplications.</p>
	Database Programmer /MIS Specialist (02)	Rs.75,600/-	<p>Essential Qualification: Graduate or higher degree in Computers/IT/Geospatial technology from any university/Professional Institution recognized by Government with experience in the GIS software's development and applications customization. Minimum 3+ years of experience</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Working experience on MS SQL Server/Postgres SQL Server • Handling and Creating the Database/Enterprise Geo-database. • Providing database support in day to day operation • Experience with Performance Tuning and Optimization (PTO), using native monitoring and troubleshooting tools • Experience with backups, restores and recovery models • Knowledge of High Availability (HA) and Disaster Recovery (DR) options for SQL Server • Experience working with Windows server, including Active Directory • Excellent written and verbal communication • Flexible, team player, "get-it-done" personality • Ability to organize and plan work independently • Ability to work in a rapidly changing environment • Ability to multi-task and context-switch effectively between different activities and teams • MIS reports
	Software Developer (01)	Rs. 56,700/-	<p>Essential Qualification: Graduate or higher degree in Computers/IT/Geospatial technology from any university/Professional Institution recognized by Government with experience in the GIS software's development and applications customization.</p>

			<p>Minimum 2+ years of experience</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Development of Web and REST APIs with Node Js and .net • Familiar with the ASP.NET and Express JS Node framework, SQL Server and design/architectural patterns • Will be Preferred if Experience in location, tracking mobile app apis & dashboards. • Knowledge of ASP.NET, SQL Server, HTML, CSS, JavaScript, and C#, Node Js, Postgres SQL.
Software Tester (01)	Rs.56,700/-	<p>Essential Qualification: Graduate in Computers/IT/Geo- Graduate or Master degree in Computers/Geospatial technology from any university/ Professional Institution recognized by Government with experience in the GIS software's development and applications customization.</p> <p>Minimum 2+ years of experience</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Desktop/Web application user interface testing, usability testing, regression testing, and systems integrations testing • Strong experience in Test planning, Test Cases writing, Defect logging & tracking, Test reporting • Analyzing test results on database impacts, errors or bugs, and usability. • Postman or Other API testing tools • Preparing reports on all aspects related to the software testing carried out and reporting to the design team • Knowledge of JavaScript, HTML and CSS • Develop testing best practices, and an emphasis on security best practices • Experience on using JX-Ray, Jenkins, Cucumber, Selenium would have additional advantage. • Excellent English written and verbal communication skills. • Exposure to Performance testing using LoadRunner, Jmeter. • Having experience in Manual and Automated testing. 	
Research Associate-III (RA-III) (AI /ML) (02)	Rs 40,000 + HRA OR #Rs 54,000 + HRA	<p>Essential Qualification: Ph.D. in Remote Sensing &GIS (utilizing Optical Remote Sensing)/ Geo-Informatics/Geography/Geo-Sciences/Environmental Science/Forestry/Agronomy/Agriculture/Statistics/Computer Science & Engineering/ Meteorology with use of Geo-spatial techniques in Ph.D. research work.</p> <p style="text-align: center;">OR</p> <p>1st Class Master's degree in Remote Sensing/GIS/ Geo-Informatics / Geography / Geo-Sciences/ Environmental Science/Forestry/Agronomy/Agriculture/ Statistics/Computer Science & Engineering/Meteorology from recognized University with 3-year experience in relevant field</p> <p style="text-align: center;">AND</p> <p>At least one research Paper published in peer reviewed Journal after fulfilling Essential qualification</p> <p style="text-align: center;">AND</p>	

			<p>With two years relevant experience after obtaining essential qualifications</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Work experience in using optical remote sensing data • Work experience relevant to Artificial Intelligence/Machine Learning (AI/ML) technique
	Project Fellow (15)	Rs.*31,000 + HRA OR Rs.25,000 + HRA	<p>Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in the relevant field i.e. Water Resources/Agriculture/Forestry/Geography/Environmental Science/Mathematics/Physics/Botany/Urban Regional Planning with P.G. Diploma in Remote Sensing/GIS/Geo-informatics</p>
3	Project Name: "Creation of GIS Cell in Municipal Corporation (MCF) Faridabad (Phase-II)		
	<p>Sr. Software Developer</p> <ul style="list-style-type: none"> • Application (01) • Data (01) 	Rs.66,150/-	<p>Essential Qualification: Graduate or higher degree in Computers from any university/Professional Institution recognized by Government with work experience in Software and GIS data development. Minimum 3+ years of experience.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Experience in the development GIS applications. • Development of Web and REST APIs with NodeJs and .net • Knowledge with the ASP.NET and Express JS Node framework, SQL Server and design/architectural patterns. • Experience in location, tracking mobile app APIs & dashboards. • Good skills in bugs resolutions, DB Planning & Designing the architectures. • API Documentation process flows & data, speed optimizations in gathering-posting the data from/ to the server. • Knowledge of ASP.NET, SQL Server, HTML, CSS, JavaScript, and C#, Node Js, Postgres SQL. Prepare and maintain code for various .Net applications and resolve any defects in systems. • Development of Web and REST APIs with NodeJs and .net • Development of web-app and exposure of Mobile app development. • Team handling • Any relevant certification
	<p>Jr. Software Developer</p> <ul style="list-style-type: none"> • Application (01) • Data (01) • Android (01) • IOS (01) 	Rs.37,406/-	<p>Essential Qualification: Graduate or higher degree in Computers/IT/Geo-informatics from any university/Professional Institution recognized by Government. Minimum 1+ year of experience.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Android and IOS application experience. • Rich knowledge of Android APIs and Frameworks. • Familiar with Objective-C, Cocoa Touch and swift. • Experience working with iOS frameworks such as Core Data, Core Animation, Core Graphics and Core Text. • Additional skills in SQL, MySQL, Postgres SQL and other RDBMS. Comfortable with CSS, XHTML, XML, JavaScript, JQuery and Ajax.

			<ul style="list-style-type: none"> • Knowledge of Java Native Interface (preferred). • Sound knowledge on object-oriented programming. Expertise in Git, MySQL, XML, JSON, and Web Service. • GIS programming background (preferred). • Able to write and debug cross-platform code for mobile database. • MySQL, Postgres SQL and other RDBMS. Comfortable with CSS, XHTML, XML, JavaScript, JQuery and Ajax. • API written knowledge will be given added advantage.
4	Project Name: "Drone Imaging & Information Services of Haryana"		
	<p>Team Lead (Image Processing) (01)</p> <p>Digitization/ Feature Extraction) (02)</p>	Rs.54000/-+ HRA	<p>Essential Qualification: Minimum 3 years of research, teaching, design and development experience after 1st class M.Sc./MCA/ MTech. from a recognized university in Geo-informatics & Photogrammetry/Geospatial Sciences/ Computer Science / Mathematics/RS and GIS.</p> <p style="text-align: center;">OR</p> <p>Doctorate or equivalent degree from a recognized university in the relevant field. Two years' experience after obtaining essential qualification.</p> <p style="text-align: center;">And</p> <p>At least one research paper in Science Citation Indexed (SCI) Journal.</p> <p>Desirable :</p> <ul style="list-style-type: none"> • Knowledge of GPS/DGPS based instruments/CORS survey, data processing and handling of outputs. • Working experience on the latest technology of drone image processing on raw data to generate DSM, DTM, Contours, ortho-mosaic, 3D models for the different projects like land mapping etc. • Working knowledge of Pix4D, Correlator3D, Site Scan for ArcGIS, Agisoft Photo scan Pro, ERDAS Imagine, ENVI etc. • Data management of UAV data outputs in various formats. • Capability to resolve issues in processing of UAV data including point cloud classification. • QA /QC of data. • Should have more than one year of experience in UAV Image Interpretation and feature extraction. • Knowledge and working experience on ARCGIS / QGIS etc. (latest technology/ software) of automatic / manual feature extraction using Orthorectified Images generated from UAV. • Knowledge of attribute collection and field addition, merging of various attribute tables in ARCGIS and QGIS. • Knowledge of data model structure and layout of maps. Reporting and maintenance of created data base.
	<p>GIS Technician (Image Processing) (05)</p> <p>(Digitization /Feature Extraction) (10)</p>	Rs.31000/- +HRA	<p>Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing/GIS/Geo-Informatics & Photogrammetry/Geo- spatial Sciences / Computer Science / Mathematics.</p> <p style="text-align: center;">AND</p> <p>The candidates have cleared NET test – CSIR, UGC, NET including Lectureship (Assistant Professorship) and GATE or should have cleared any National Level examination, such as DST/DBT/DOS/DAE/DRDO/ICAR/IISC etc.</p> <p>Desirable:</p>

			<ul style="list-style-type: none"> • Knowledge of GPS/DGPS based instruments/ CORS survey, data processing and handling of outputs. • Working experience of 1 year on the latest technology of drone image processing on raw data to generate DSM and DTM and ortho-mosaic, 3D models. • Working knowledge of Pix4D, Correlator3D, Site Scan for ArcGIS, Agisoft Photo scan Pro, ERDAS Image, ENVI etc. • Should have more than one year of experience in UAV Image Interpretation and feature extraction. • Knowledge and working experience on ARCGIS / QGIS etc. (latest technology/ software) of automatic/manual features extraction using Orthorectified images generated from UAV. • Knowledge of attribute collection and field addition, merging of various attribute tables in ARCGIS and QGIS. • Knowledge of data model structure and layout of maps.
5	Project Name: Time Series Mapping of Kharif and Rabi Crops of Haryana – A Geospatial Approach		
	<p>Research Associate-III Specialization : Optical Remote Sensing Data Processing & Analysis (06)</p> <p>Research Associate-III Specialization : Microwave Remote Sensing Data Processing & Analysis (05)</p>	<p>Rs. 40,000/- +HRA OR #Rs.54,000/- + HR A</p>	<p>Essential Qualification: Ph.D. in Remote Sensing &GIS (utilizingOpticalRemoteSensing)/Geo-Informatics/Geography/Geo-Sciences/ Environmental Science/ Forestry/Agronomy/Agriculture/ComputerScience&Engineering/ MeteorologywithuseofGeo-spatialtechniquesinPh.D.researchwork.</p> <p>OR</p> <p>1st Class Master's degree in Remote Sensing/GIS/Geo-Informatics/Geography/Geo-Sciences/ Environmental Science/Forestry/ Agronomy/Agriculture/Computer Science &Engineering/ Meteorology from recognized Universitywith3-yearexperienceinrelevantfield</p> <p>AND</p> <p>At least one research Paper published in peer reviewed Journal after fulfilling Essential qualification</p> <p>AND</p> <p>With two years relevant experience after obtaining essential qualifications</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Work experience in using optical remote sensing data • Work experience in using microwave remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML) technique
	Project Fellow (14)	<p>Rs.*31,000/- + HRA or Rs.25,000/- + HRA</p>	<p>Essential Qualification: 1st class master Degree in Remote Sensing/GIS/Geo-informatics</p> <p>OR</p> <p>1st class Master's degree in the relevant field i.e. Water Resources/Agriculture/Forestry/Statistics/Geography/Environmental Science/Mathematics/Physics/Botany/Urban Regional Planning with P.G. Diploma in Remote Sensing/GIS/Geo-informatics</p>

6	Project Name: Mapping of Mining areas of Haryana on Satellite and Geo-referenced Cadastral Maps and delineating its boundary based on pillars using DGPS technology		
	Project Assistant (01)	Rs.32000/-	B.Tech/M.Sc./MCA/PG Diploma in Geoinformatics or above in relevant field.
7	Project Name: Establishment of HARSAC GIS Lab at District Level		
	Project Fellow (07)	Rs.*31,000 + HRA or Rs. 25,000 + HRA	EssentialQualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics/Geomatics/Geospatial Technology from a recognized university/Institute OR 1st class Master's degree in Geography with one year P.G. Diploma in Remote Sensing/GIS/Geospatial technology/Geo-informatics from a recognized university/ Institute
8	Project Name: Forecasting Agricultural output using Space Agrometeorology and land based observation (FASAL)		
	Project Fellow (01)	Rs.*31,000 + HRA or Rs. 25,000 + HRA	EssentialQualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics/Geomatics/Geospatial Technology from a recognized university/Institute OR 1st class Master's degree in Geography/Agriculture/Statistics/Meteorology/ Computer with one year P.G. Diploma in Remote Sensing/GIS/Geospatial technology/Geo-informatics from a recognized university/ Institute
9	Project Name: Creation and Establishment of GIS Cell in HSPCB, HQ, Panchkula		
	Project Fellow (01)	Rs.*31,000 + HRA or Rs. 25,000 + HRA	EssentialQualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in Geography with one year P.G. Diploma in Remote Sensing/GIS/Geospatial technology/Geo-informatics from a recognized university/ Institute

Terms and conditions:-

1. HARSAC may increase or decrease the number of posts.
2. Tenure of the project is one year which may be increased or decreased.
3. Those candidates who have already applied earlier for the above said posts, need not to be applied again.
4. *Revised Salary of Rs. 31,000 + HRA will be paid to Project Fellow having NET tests CSIR, UGC NET including lectureship (Assistant Professorship) and GATE or should have cleared any National Level examinations such as DST/DBT/DOS/DAE/DRDO/ICAR/IISC etc.
5. # Revised salary of Rs. 54,000 + HRA will be paid to Research Associate -III having the above qualification with at least one research paper published in Science Citation Index (SCI) journal.
6. Incomplete application forms shall not be entertained.
7. The eligible candidates will be invited by DCRUST for attending the Written / Skill Test in due course.