



Haryana Space Applications Centre (HARSAC)
(Citizen Resources Information Department, Haryana)
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Advt.no. HARSAC/HSR/Recruitment/PP/2024/02

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 <https://register.cocubes.com/harsac-2024>. **The portal will be opened w.e.f. 01.08.2024 and closed on 16.08.2024. The online examination will be held on 24.08.2024 and 25.08.2024. 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

Table 1: Requirement of manpower in various projects of HARSAC

Sr. No.	Name of project
1.	Time Series Mapping of Kharif and Rabi Crops of Haryana – A Geospatial Approach
2.	Digitization, Geo-referencing & Superimposition of Layout Plans, Sajra Plans and Development of GIS System for HSVP properties
3.	Geo-Enabled Temporal Change Management and Monitoring System for Developmental Activities in Haryana
4.	Yield Estimation Systems based on Technology Under Pradhan Mantri Fasal Bima Yojana project
5.	Establishment of HARSAC GIS Lab at District Level
6.	Drone Imagining & Information Services of Haryana Ltd. (For Karnal)
7.	Creation and Establishment of GIS Cell in HSPCB, HQ Panchkula
8.	Creation and Establishment of GIS Cell in PHED, HQ Panchkula
9.	Digitization of Block Forest Boundaries in Haryana
10.	“Satellite-based monitoring of crop residue burning events and burnt area estimation for Kharif-2024 & Rabi-2025 in Haryana”

Table 2: Consolidated number of posts, emoluments, and tenure

Sr. No of Project	Post Name	Total Number of Posts	Remuneration / Salary / Emoluments* (in Rs. Per Month)	Tenure (years)#
1	1.1 Image Analyst (Optical Remote Sensing Data Processing)	03	Rs.54,520/-	1
	1.2 Image Analyst (Microwave Remote Sensing Data Processing)	01	54,520/-	1
	1.3 AI /ML Analyst	01	Rs.54,520/-	1
	1.4 RA-III	02	Rs. 54000/- +HRA as applicable	1
	1.5 GIS Developer	02	Rs.66150/-	1
	1.6 IoT Expert	01	Rs. 64800/-	1
	1.7 Project Fellow (PF)	07	Rs. 25000/- plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	1
	1.8 Junior Software Engineer	04	Rs.31000/-	1
2	2.1 Senior Software Development Officer	01	Rs. 90000/-P.M	1
	2.2 Geospatial Data Development Officer	01	Rs. 90000/-P.M	1
3	3.1 Senior Software Development Officer	01	Rs. 90000/-P.M	1
	3.2 Database Programmer /MIS Specialist	01	Rs. 75600/-P.M	1
	3.3 GIS Developer	01	Rs. 66150-P.M	1

4	4.1 Geospatial officer	01	Rs. 90000/-P.M	1
	4.2 Geospatial Analyst (Microwave /SAR Data processing)	01	Rs. 75000/-P.M	1
5	Project Fellow	07	Rs. 25000/- plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	1
6	6.1 GIS Technician (Image Processing)	18	Rs. 31000/-+HRA as applicable	1
	6.2 GIS Technician (Digitization)	13	Rs. 31000/-+HRA as applicable	1
	6.3 Team Lead (Image Processing) (Sr.4)	01	Rs. 54000/- + HRA as applicable	1
	6.4 Team Lead (Digitization)	01	Rs. 54000/- + HRA as applicable	1
7	7.1 Project Fellow (PF)	01	Rs. 25000/- plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	1
8	8.1 Research Associate-I	01	Rs. 36000/- + HRA as applicable *Revised salary Rs. 47000/- +HRA as applicable	1
9.	9.1 Research Associate-I	01	Rs. 36000/- + HRA as applicable *Revised salary Rs. 47000/- +HRA as applicable	1
	9.2 Project Fellow (PF)	02	Rs. 25000/- plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	1
10.	10.1 Research Associate-I	01	Rs. 36000/- + HRA as applicable *Revised salary Rs. 47000/- +HRA as applicable	1
	10.2 Project Fellow (PF)	04	Rs. 25000/- plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	1

*RAs and PFs will be eligible for HRA as per HARSAC norms.

Table 3: Project wise detail of posts and Qualification

Sr. No. of Project	Sr. No. of Post (No.)	Qualification
1.	Name of Project: Time Series Mapping of Kharif and Rabi Crops of Haryana – A Geospatial Approach	
	1.1 Image Analyst (Optical Remote Sensing Data Processing) (03) (Rs. 54,520/- P.M) 1.2 Image Analyst (Microwave Remote Sensing Data Processing) (01) (Rs. 54,520/- P.M)	Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Geography/ Environmental Science / Forestry / Agronomy / Agriculture /Computer Science with use of Geo-spatial techniques in Ph.D. research work. OR 1st Class Master's degree in Remote Sensing/GIS/Geo-Informatics/Geography/ Environmental Science/ Forestry /Agronomy/Agriculture/Computer Science from recognized University with 3 years' experience in relevant field. Desirable: •Work experience in using optical/ microwave remote sensing data •Work experience in using remote sensing data. •Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), Agro-meteorology, Meteorology, Statistics
	1.3 AI /ML (Analyst)(01) (Rs. 54,520/- P.M)	Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Geography/ Environmental Science / Forestry / Urban & Town Planning / Computer Science with use of Geo-spatial techniques in Ph.D. research work. OR 1stClass Master's degree in Remote Sensing/GIS/Geo-Informatics/Geography/ Environmental Science / Urban & Town Planning / Computer Science from recognized University with 3 years' experience in relevant field. Desirable: •Work experience in using optical/ microwave remote sensing data •Work experience in using remote sensing data. •Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), Agro-meteorology, Meteorology, Statistics

1.4 Research Associate-III RA-III (02) (Rs. 54000/- +HRA as applicable)	Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Geography/ Environmental Science / Forestry / Urban & Town Planning / Computer Science with use of Geo-spatial techniques in Ph.D. research workwith 3 years' experience in relevant field. OR 1stClass Master's degree in Remote Sensing/ GIS/ Geo-Informatics/ Geography/ Environmental Science / Urban & Town Planning / Computer Science from recognized University with 5 years' experience in relevant field. Desirable: •Work experience in using optical/ microwave remote sensing data •Work experience in using remote sensing data.
1.5 GIS Developer (01)(Rs. 66150-P.M)	Essential Qualification: Bachelor's 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 3+ years of experience. Desirable work experience: • Experience in remote sensing and GIS software's development. • Open source coding. • .Full stack developer. • Team handling. • Knowledge of Web GIS and series. • Any relevant certification.
1.6 IoT Expert (01) (Rs. 64800/- per month)	Essential Qualification: Bachelor's Degree / Higher Degree in IT/CSE/Electronics & Communication from any university/ Professional Institution recognized by Government. Experience: Minimum 3 years of experience Desirable work experience: • Basic Knowledge of AVR, PIC, ARM, RASPBERRY PI are required. • Basic knowledge of working with different kind of Sensors. • Must be passionate for learning new technology. • Knowledgeable on TCP/IP Networking concepts and protocols. • Must have experience working independently on Linux systems. • Able to write software scripts such as Python/Perl, Linux

	scripting, JavaScript, etc... • Experience with software testing using Gitlab or similar environment. • Familiarity with concepts like fire walling, VPN/IPSEC, TLS, SNMP, PPP, NAT etc. Familiarity with cellular technologies such as 3G, 4G/LTE, 5G etc.
1.7 Project Fellow (07) Rs. 25000/- plus HRA as applicable Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in Agriculture/Agro-Meteorology/Forestry/Geography/Geology/Geophysics/Environmental Science/Mathematics/Physics/Water Resources/Urban Planning with P.G. Diploma in Remote Sensing/GIS/ Geo-informatics from a recognized university/ Institute *Revised salary shall be paid to the 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.
1.8 Junior Software Engineer (04) (Rs. 31,000/- P.M)	Essential Qualification: Graduate or higher degree in Computers/ IT/ Geo-informatics. Freshers can apply. Desirable: • Relevant experience is preferred. • 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 CoreText. • Additional skills in SQL, MySQL, Postgres SQL and other RDBMS. Comfortable with CSS, XHTML, XML, JavaScript, JQuery and Ajax. • 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.
2	Name of Project: Digitization, Geo-referencing & Superimposition of Layout Plans, Sajra Plans and Development of GIS System for HSVP properties	
	2.1 Senior Software Development Officer (01) (Rs. 90,000/-P.M)	Essential Qualifications: Graduate or higher degree in Computer/Geospatial Technology from any university/professional institution recognized by Government with experience in the GIS software's development and applications customization. Minimum 5+ years experience Desirable: • Development of Web and REST APIs with Node Js and .net. • Familiarity with the ASP .NET framework, and Express JS Node framework, SQL Server and design/architectural pattern. • Will be Preferred if Experience in location, tracking mobile app APIs and dashboards. • Good skills in bugs resolutions, DB Planning and Designing the architectures. • 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.
	2.2 Geospatial Data Development Officer (01) (Rs. 90,000/-P.M)	Essential Qualifications: Master in Computer/Geo-spatial Technology from any university / professional institution recognised by Government. Minimum 5+ Years of experience in the GIS database development /customization Desirable: • Experience with Geographic Information System (GIS)/web mapping. • Familiar with ESRI ArcGIS software, CAD, Sound Knowledge of Spatial analytic and modelling. • Knowledge of Remote Sensing. • Knowledge of data classification standards and open data standards. • Experience with coding, spatial database development strong analytic and communication skills.
3. Name of Project: Geo-Enabled Temporal Change Management and Monitoring System for Developmental Activities in Haryana		
	3.1 Senior Software Development Officer (01)	Essential Qualifications: Graduate or higher degree in Computer/Geospatial Technology from any university/professional institution recognized by

	(Rs. 90,000/-P.M)	Government with experience in the GIS software's development and applications customization. Minimum 5+ years experience Desirable: • Development of Web and REST APIs with Node Js and .net. • Familiarity with the ASP .NET framework, and Express JS Node framework, SQL Server and design/architectural pattern. • Will be Preferred if Experience in location, tracking mobile app APIs and dashboards. • Good skills in bugs resolutions, DB Planning and Designing the architectures. • 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.
	3.2 Database Programmer /MIS Specialist (01)(Rs. 75600/-P.M)	Essential Qualification: Bachelor's degree or higher 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 5+ years of experience. Desirable: • 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 work in a rapidly changing environment. • Ability to multi-task and context-switch effectively between different activities and team. • .MIS reports.
	3.3 GIS Developer (01)(Rs. 66150/-P.M)	Essential Qualification: Bachelor's or higher degree in Computers/Geo-spatial 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. Desirable work experience: • Experience in remote sensing and GIS software's development. • Open source coding. • .Full stack developer. • Team handling. • Knowledge of Web GIS and series. • Any relevant certification.
4	Yield Estimation Systems based on Technology Under Pradhan Mantri Fasal Bima Yojana project	
	4.1 Geospatial officer (01) (Rs. 90,000/-P.M)	Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Agriculture/ Environmental Science/ Geography with use of Geo-spatial techniques in Ph.D. research work and relevant subject with 3 years of experience Or 1st Class Master's degree in Remote Sensing/ GIS/ Geo-Informatics/ Agriculture/ Environmental Science/ Geography from recognized University with 5 years' experience in Remote Sensing and GIS. Desirable: • Work experience in using Optical/Microwave Remote Sensing Data • Work experience in using remote sensing Data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), crop mapping etc.
	4.2 Geospatial Analyst (Microwave /SAR Data processing) (01) (Rs. 75,000/-P.M)	Essential Qualification: 1st Class Master's degree in Remote Sensing/ GIS/ Geo-Informatics/ Agriculture/ Environmental Science/ Geography from recognized University with 5 years' experience in Remote Sensing and GIS. Desirable: • Work experience in using Optical/Microwave Remote Sensing Data • Work experience in using remote sensing Data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), crop mapping etc.
5	Establishment of HARSAC GIS Lab at District Level	
	5.1 Project Fellow (07) Rs. 25000/- plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in Agriculture/Agro-Meteorology / Forestry / Geography / Geology /Geophysics / Environmental Science / Mathematics / Physics / Water Resources/Urban Planning with P.G. Diploma in Remote Sensing / GIS / Geo-informatics from a recognized university/ Institute

		*Revised salary shall be paid to the 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.
6	Name of Project:Drone Imaging & Information Services of Haryana Ltd. (For Karnal)	
	6.1 GIS Technician (Image Processing) 18 Nos. Salary Rs. 31000/- + HRA as applicable 6.2 GIS Technician (Digitization) 13 Nos. Salary Rs. 31000/- + HRA as applicable	Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing /GIS / Geo-Informatics & Photogrammetry /Geo- spatial Sciences / Geology / Geo Physics / Computer Science / Mathematics/Urban Planning/Town and Country Planning/ Environmental Sciences/B.Tech in Mining. Desirable: •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.
	6.3 Team Lead (Image Processing) 01 No. Salary Rs. 54000/- + HRA as applicable 6.4 Team Lead (Digitization) 01 No. Salary Rs. 54000/- + HRA as applicable	Essential Qualification: Doctorate or equivalent degree from a recognized university in relevant subject with 2 years of experience or Minimum 3 years of research, teaching, design and development experience after 1st class M.Sc. / MCA/ M.Tech. from a recognized university in Geo-informatics & Photogrammetry/ Geospatial Sciences/ Computer Science/ Mathematics and two years experience after obtaining essential qualifications i.e. Total experience year 3+2= 5. Desirable: •Should have more than one year of experience in UAV Image interpretation and feature extraction •Knowledge of GPS/ DGPS based instruments/ CORS survey, data processing and handling of outputs. •Knowledge and working experience on ARCGIS/QGIS etc. (latest technology/ software) of automatic/manual feature

		extraction using Orthorectified images generated from UAV. •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. •Knowledge of data model structure and layout of maps. •Reporting and maintenance of created data base. •QA/QC of data.
7.	Name of Project:Creation and Establishment of GIS Cell in HSPCB, HQ Panchkula	
	7.1 Project Fellow (01) Rs. 25000/- plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable.	Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in Agriculture/Agro-Meteorology / Forestry / Geography / Geology /Geophysics / Environmental Science / Mathematics / Physics / Water Resources/Urban Planning with P.G. Diploma in Remote Sensing / GIS / Geo-informatics from a recognized university/ Institute *Revised salary shall be paid to the 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.
8.	Name of Project:Creation and Establishment of GIS Cell in PHED, HQ Panchkula	
	8.1 Research Associate-I RA-01 (01) Rs. 36000/- + HRA as applicable *Revised salary Rs. 47000/- +HRA as applicable	PhD in Urban Planning / Remote Sensing & GIS (utilizing Optical Remote Sensing) / Geo-informatics / Geography / Environmental Science / Water Resources / Computer Science with use of Geo-spatial techniques in PhD research work. OR 1st Class Master's degree in Urban Planning / Remote Sensing / GIS/ Geoinformatics/ Geography/ Environmental Science/ Computer Science from recognized university with 3 years experience in relevant field reviewed journal. Desirable: Work experience in using optical remote sensing data. Work experience relevant to Artificial Intelligence / Machine Learning (AI/ML) technique. Note: Revised salary shall be paid to the Research Associate

		having the above qualification with at least one research paper in Science Citation Indexed (SCI) Journal.
9.	Name of Project: Digitization of Block Forest Boundaries in Haryana	
	9.1 Research Associate-I RA-01 (01) Rs. 36000/- + HRA as applicable *Revised salary Rs. 47000/- +HRA as applicable	Ph.D. in Remote Sensing / GIS/ Geo-Informatics/ Geography using Geospatial techniques in the Ph.D research work. OR Three Years of research / project experience after 1 st Class M.Tech / M.Sc in Remote Sensing/ GIS/ Geoinformatics / Geomatics from a recognized University / institute organization. The research or project experience should include handling GIS data. AND At least one research paper published in a peer-reviewed journal.
	9.2 Project Fellow (02) Rs. 25000/- plus HRA as applicable	Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics/Geomatics from a recognized institute / organization.
10.	“Satellite-based monitoring of crop residue burning events and burnt area estimation for Kharif-2024 & Rabi-2025 in Haryana”	
	10.1 Research Associate-I (RA-I) (01) Rs. 36000/- P.M. + HRA as applicable *Revised salary Rs. 47000/- P.M. +HRA as applicable	Essential: Ph.D. in Remote Sensing / GIS/Geo-Informatics/ Geography usingGeospatial techniques in the Ph.D. research work. OR Three Years of research/project experience after 1st Class M. Tech/M.Sc. in Remote Sensing / GIS/ Geoinformatics/ Geomatics from a recognized University/ institute/ organization. AND At least one research paper published in a peer-reviewed journal. Desirable: With at least one year of working experience in the Monitoring of Crop Residue Burning Events and Assessment of burnt areas project.
	10.2 Project Fellow (PF) 04 Rs. 25000/- P.M. plus HRA as applicable *Revised Salary Rs. 31,000/- P.M plus HRA as applicable	1 st Class M. Tech/M.Sc. in Remote Sensing / GIS/ Geoinformatics/ Geomatics from a recognized institute/organization

Terms and conditions: -

1. Candidate will ensure eligibility and other requirements before filling the application form.

2. Incomplete application forms shall not be entertained. Attach all the required self-attested documents with the application form.
3. Number of posts may be increased or decreased during the process of recruitment subject to the needs in the project and funds availability.
4. Tenure of the contractual appointment is mentioned in Table 2. However, tenure may be increased or decreased depending on performance/requirement.
5. The eligible candidates will be invited by AON for attending the Written Test in due course of time.
6. In any discrepancy, decision of the Director, HARSAC will be final and abide by the applicants.
7. List of eligible candidates to be called for skill test/interaction as well as guidelines, syllabus and schedule will be uploaded on HARSAC website (www.harsac.org).
8. Candidates are advised to visit HARSAC website regularly for dates of skill test/interaction after appearing in written test to be conducted by the AON.
9. Canvassing in any form by the candidates will be disqualified.
10. Director, HARSAC can cancel this whole recruitment process or for any post/posts without assigning any reason at any time.
11. The appointment letters of the selected candidates' posts mentioned at Sr. No. 6.1 to 6.4 for Drone Imaging & Information Services of Haryana Ltd., Karnal will be issued by CEO, Drone Imaging & Information Services of Haryana Ltd., Karnal separately.
12. The vacancy is subject to the realization of funds from the funding agency in project mentioned at sr. no. 10 i.e. **"Satellite-based monitoring of crop residue burning events and burnt area estimation for Kharif-2024 & Rabi-2025 in Haryana"**

Director, HARSAC