उत्तर पूर्वी अंतरिक्ष उपयोग केंद्र/North Eastern Space Applications Centre
भारत सरकार/Govt. of India, अंतरिक्ष विभाग/Dept. of Space
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North Eastern Space Applications Centre (NESAC), Umiam is an autonomous body functioning under the Department of Space and North Eastern Council (NEC) to assist development process in North Eastern Region using space science and technology. It undertakes specific applications projects using remote sensing, GIS, satellite communication and conducting space science research. The Centre's services are helpful in natural resources management, infrastructure planning, health, education, disaster management and Earth Observation Applications Mission.

Applications are invited from eligible candidates for the following positions on temporary basis under given projects for a period of one year which can be further extended based on the performance of the candidate in the periodical reviews, for a maximum period of 03 (three) years in total or co-terminus with the project, whichever is earlier:

Post Code No.	Name of the Post & Scale of pay	Discipline	No. of Post	Essential Qualification	Desired Credentials
Project: North Eastern Region – Disaster Risk Reduction (NER-DRR)					
01.	Research Scientist [Level 10]	Electronics and Communication	01	M.E/M.Tech with First Class in Electronics/Electronics Engineering / Electronics & Communication/Electronics & Communication Engineering/Electronics & Tele-Communication/Electronics & Tele-Communication Engineering/ Electronic Design & Technology from a AICTE recognized Engineering College/ Institute/University or equivalent.	Working Experience in SATCOM Applications/ SATCOM Technology/ Tele-Communication/ Mobile Communication/ Wireless & Microwave Communication/ Telecasting/ Broadcasting / Digital e-learning content development.
02.	Research Scientist [Level 10]	Geoscience	01	M.Tech in Geology/Applied Geology / Geophysics or equivalent with pre-qualification of B.Sc with Geology as Main/Major/ Honours subject. **OR** M.Sc in Geology/Applied Geology / Geophysics or equivalent with pre-qualification of B.Sc with Geology as Main/Major/ Honours subject. **OR** M.Sc (Tech.) in Geology/Applied Geology / Geophysics or equivalent with pre-qualification of B.Sc with Geology as Main/Major/	Working experience in Geology/Applied Geology with research related to Ground water depletion study/ landslide early warning/ susceptibility study/ GPS/GNSS/seismic surveying and data processing & analysis/ use of Remote Sensing & GIS.

				Honours subject.	
03.	Research Scientist [Level 10]	Agricultural Disaster	01	M.E/M.Tech in Remote Sensing/ Geo-informatics or equivalent. **OR** M.Sc in Agriculture from a recognized university with degree/ diploma in Remote Sensing and Geographic Information System **WITH** B.Sc in any of the Natural Sciences as pre-qualification.	Working experience in application of Microwave remote sensing, Hyperspectral Remote Sensing, LIDAR data analysis, Programming knowledge in MATLAB, FORTRAN & PYTHON in the field of disaster management support
04.	Research Scientist [Level 10]	Forest Loss Studies	01	M.Tech in Physics/Botany/ Environmental Science or equivalent/ Remote Sensing/ Geoinformatics or equivalent. **OR** M.Sc in Physics/Botany/ Environmental Science or equivalent/ Remote Sensing/ Geoinformatics or equivalent. **WITH** B.Sc in any of the Natural Sciences as pre-qualification.	Working knowledge in remote sensing data handling and GIS software, Programming skills preferably Python and Matlab, Ecological/ Environmental modeling / Forest fire studies.
05.	Research Scientist [Level 10]	Weather Forecasting	01	M.Tech in Physics/Meteorology/ Atmospheric Science/Earth Systems Science or in any other subject that is equivalent to these subjects with 1 year research / work experience in any field of Atmospheric Science. **OR** M.Sc in Physics/Meteorology/ Atmospheric Science/Earth Systems Science or in any other subject that is equivalent to these subjects with 1 year research / work experience in any field of Atmospheric Science.	Working knowledge in Satellite Meteorology, Thunderstorm, Lightning, Numerical Weather Prediction models with programming knowledge in MATLAB, FORTRAN & conversant with LINUX Operating System.
06.	Research Scientist [Level 10]	FLEWS (Flood Early Warning)	01	M.E/M.Tech in Civil Engineering (in Water related specialization)/ Agriculture Engineering (in Water related specialization)/Water Resources/ Water Resources Engineering/Water Resources Management/Hydrology/ Hydraulics/ Watershed Management or equivalent. **OR** M.E/M.Tech in Remote Sensing & Geographic Information System or equivalent (with specialization & dissertation in Water Resources/	Working experience in GIS based Hydrological, Hydraulic and Hydrodynamic modelling

				Hydrology & related fields) and B.E/B.Tech in Civil Engineering/Agriculture Engineering in First Class.	
07.	Research Scientist [Level 10]	IT-Systems & Networks, Database/ Web Management	01	M.E/M.Tech in Computer Science & Engineering/Information Technology or equivalent with B.E/ B.Tech in Computer Science & Engineering/Information Technology or equivalent in First Class.	Working experience in implementing in the following areas: Systems and Network Management, Skills in cyber security, antivirus and associated auditing tools, hosting and management of operational web application, configuration of FTP/ DNS services, cloud platform and services, etc.
08.	Research Scientist [Level 10]	Remote Sensing & Geographic Information System	01	M.Tech in Geoinformatics/ Geomatics/Remote Sensing and Geographic Information System or equivalent with dissertation/thesis or working experience in Microwave/Hyperspectral/Lidar Remote Sensing data processing/ application. **OR** MSc in Geoinformatics/ Geomatics/Remote Sensing and Geographic Information System or equivalent with dissertation/thesis or working experience in Microwave/ Hyperspectral/Lidar Remote Sensing data processing/ application.	• Working knowledge in Programming, preferably Python and Matlab. • Working experience in different applications. • Research in Geospatial Modelling
09.	Research Scientist [Level 10]	Geoinformatics	01	M.E/M.Tech in Remote Sensing/ Geoinformatics or equivalent or Computer Science/Information Technology or equivalent with B.E/ B.Tech in Electronics and Tele communication Engineering or equivalent or Computer Science Engineering/Information Technology or equivalent or Geo-informatics/Geomatics or equivalent in First Class.	Working experience in Geoweb services/ Spatial Decision Support System/Spatial Data Infrastructure/ Location based services Photogrammetry/ LIDAR data processing/ Microwave experience/Big Data Analytics/ Geospatial Dashboard analysis, etc. for geospatial data

10.	Research Scientist [Level 10]	Data Science	01	M.E/M.Tech in Computer Science & Engineering/Information Technology/Data Science or equivalent with B.E/B.Tech in Computer Science & Engineering / Information Technology or equivalent in First Class.	Working experience in implementing AI/ MI/DL based applications, development of IoT based applications, development of dashboard applications with data analytics tools, Good grasp of programming and data analytic tools such as C++, Java, Python, R, Hadoop, etc.
Project: Doppler Weather Radar (DWR) at Sohra (Cherrapunjee)					
11.	Research Scientist [Level 10]	Electronics	02	M.Tech in Electronics and Communication Engineering/ Mechanical Engineering/Electrical & Electronics Engineering or equivalent.	Experience in radar systems, digital signal processing, programming knowledge in MATLAB, FORTRAN and conversant with LINUX operating system.

Note: Number of positions indicated above is provisional and may vary depending on the actual requirement.

Eligibility:

Note: 1 M.E./M.Tech or equivalent post graduate degree in 1st class with an aggregate minimum of 60% or CGPA/CPI grading of 6.5 on a 10 scale or equivalent.

2. M.Sc degree should be in first class with an aggregate minimum of 65% (average of all semesters) or CGPA/CPI grading of 6.84 on a 10 scale or equivalent.

3. अंको/सी.जी.पी.ए. ग्रेडिंग के राउंडिंग ऑफ की अनुमति नहीं है। / Rounding-off marks/CGPA Grading is not allowed

4. All degrees should be duly recognized by AICTE/UGC, or any other organization authorized by Government of India to do so.

Note:

(i) Candidates having M.E./M.Tech degree in the relevant discipline must clearly mention with supporting proof, the specialization/ dissertation/ thesis in the relevant field for consideration of their application.

(ii) Teaching experience in the related fields will be considered provided necessary supporting document by the concerned authority of the institute on the list of subjects taught by the applicant.

(iii) Experience letter should contain the details of work done by the applicant under different projects.

(iv) In case of foreign degree holders where the documents/degree/certificates are not in English then translation and authorized transcription must be attached and equivalency