

उत्तर पूर्वी अंतरिक्ष उपयोग केंद्र/North Eastern Space Applications Centre
भारत सरकार/Govt. of India, अंतरिक्ष विभाग/Dept. of Space
उमियम/Uiam – 793103, मेघालय/Meghalaya
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**Selection for Research Scientist, Research Associate-I, Junior Research Fellow
& Project Associate-I for temporary positions at NESAC**

Advt. No.NESAC/RMT-TEMP/01/2023

Date: 12.02.2024

North Eastern Space Applications Centre (NESAC), Uiam 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. Its services are helpful in natural resources management, infrastructure planning, health, education, disaster management, earth observation applications mission, etc.

Applications are invited from eligible candidates for selection for the following temporary positions:

1. RESEARCH SCIENTIST			
Post Code No.	No. of Position	Essential Qualification	Desired Qualification/ Experience
RS01	2 (two)	M.E./M.Tech in Civil Engineering / Agricultural Engineering / Remote Sensing & GIS / Water Resources Engineering with specialization / dissertation in water resources with B.E./B.Tech Degree in Civil/Agricultural Engineering and One year working/research experience in the relevant field.	<ul style="list-style-type: none">• Experience in Hydrological and Hydraulic Modeling using Remote Sensing & GIS inputs, etc.
RS02	1 (one)	M.Sc in Agriculture / Agronomy / Agrometeorology / Soil Science / Agriculture Engineering / Crop Physiology / Botany / Geography / Life Sciences / or equivalent and One year working/research experience in the relevant field. OR M.E./M.Tech in RS & GIS / Geoinformatics / Agriculture Engineering / or equivalent and One year working/research experience in the relevant field.	<ul style="list-style-type: none">• Working Experience in Microwave remote sensing, Google Earth Engine, programming knowledge in MATLAB, FORTRAN, & PYTHON in the field of disaster management support.

Post Code No.	No. of Position	Essential Qualification	Desired Qualification/ Experience
RS03	1 (one)	M.Tech/M.S. in Electronics and Communication Engineering / Mechanical Engineering / Electrical & Electronics Engineering / Computer Science & Engineering / Space Science & Engineering / or equivalent and One year working/research experience in the relevant field.	<ul style="list-style-type: none"> • Experience in radar systems, digital signal processing, programming knowledge in MATLAB, FORTRAN and conversant with LINUX operating system.
RS04	1 (one)	M.Sc/M.E./M.Tech in Remote Sensing/ Geoinformatics/ Computer Science/ Information Technology / or equivalent with Graduation in Computer Science and Engineering / Civil Engineering / Information Technology/ Geoinformatics / Geomatics / Electronics/ Electrical/ or equivalent with dissertation/thesis or working experience in Microwave/ Hyperspectral / Lidar Remote Sensing data processing/ applications and One year working/research experience in the relevant discipline.	<ul style="list-style-type: none"> • Working knowledge in Programming, preferably Python and Matlab. • Working knowledge in Photogrammetry/ LIDAR data processing/ Location based services. • Working experience in image processing of Satellite data (Optical data/ Hyperspectral/ Microwave Remote Sensing data). • Research in Geospatial Modelling.

2. RESEARCH ASSOCIATE-I

Post Code No.	No. of Position	Essential Qualification	Desired Qualification/ Experience
RA01	1 (one)	<p>Ph.D in Atmospheric Science / Physics / Earth System Science / or equivalent and One research paper published in Science Citation Indexed (SCI) Journal.</p> <p style="text-align: center;">OR</p> <p>M.Tech/M.E. in Atmospheric Science / Earth System Science / Applied Physics / or equivalent with three years of research experience in Atmospheric Science and One research paper published in Science Citation Indexed (SCI) Journal.</p>	<ul style="list-style-type: none"> • Experience in WRF modeling, weather forecast validation, LINUX and Python programming, etc.

3. JUNIOR RESEARCH FELLOW			
Post Code No.	No. of Position	Essential Qualification	Desired Qualification/ Experience
JRF01	2 (two)	M.Sc or M.Tech in Physics/ Atmospheric Science/ Earth System Science/ or equivalent with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.	<ul style="list-style-type: none"> • Research experience in the relevant field.
JRF02	2 (two)	<p>M.E./M.Tech in Civil Engineering/ Agriculture Engineering / Water Resources Engineering/ Earth Science Engineering / Environmental Engineering / Remote Sensing and GIS / or equivalent with water resources related specialization/dissertation with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p> <p style="text-align: center;">OR</p> <p>M.Sc. in Remote Sensing & GIS/ Geology/ Environmental Science with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p>	<ul style="list-style-type: none"> • Experience in Hydrological Modelling and Mapping using Remote Sensing & GIS inputs etc.
JRF03	1 (one)	<p>M.Sc./M.S./M.Tech in Physics / Physical Sciences / Electronics / Meteorology / Earth Sciences / Atmospheric Sciences / Electronics and Communication Engineering / Electrical and Electronics Engineering / or equivalent with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p> <p style="text-align: center;">OR</p> <p>B.E./B.Tech in Applied Physics / Electronics / Electrical and Electronics Engineering with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p>	<ul style="list-style-type: none"> • Knowledge of Atmospheric Sciences
JRF04	1 (one)	<p>M.Tech. in Geoinformatics/ RS & GIS / or equivalent with B.Tech./M.Sc. in Computer Science Engineering / Information Technology / Electronics and Communication Engineering / Physics / or equivalent with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p> <p style="text-align: center;">OR</p> <p>B.E/B.Tech in Computer Science Engineering / Information Technology with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p>	<ul style="list-style-type: none"> • Experience in WRF modeling, weather forecast validation, LINUX, Python, etc.

Post Code No.	No. of Position	Essential Qualification	Desired Qualification/ Experience
JRF05	2 (two)	M.Sc. in Forestry / Botany / Environmental Science / Ecology & Environmental Science / Geography / Environmental Management / Forest Science / Forestry & Biodiversity / Forestry & Environmental Science / Geoinformatics / Remote Sensing & GIS / or equivalent with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.	<ul style="list-style-type: none"> Experience of handling RS & GIS software or Diploma in geo-informatics or experience in ecological data collection.
JRF06	1 (one)	<p>M.Sc. in Agriculture / Horticulture / Sericulture / Forestry / Botany / Life Science / Environmental Sciences / Geology / Applied Geology / Geography / Physics with Bachelor of Science as pre-qualification with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p> <p style="text-align: center;">OR</p> <p>M.Sc./M.Tech in Agricultural Engineering/ Remote Sensing / Geoinformatics / Spatial Information Science / Computer Science / Information Technology / Electronics & Communication Engineering with B.Sc./B.E./ B.Tech in relevant discipline as pre-qualification with a valid NET/GATE/NJET/ or equivalent score in the relevant discipline.</p>	<ul style="list-style-type: none"> Working experience in application of RS and GIS in agriculture and allied areas.

4. PROJECT ASSOCIATE-I			
Post Code No.	No. of Position	Essential Qualification	Desired Qualification/ Experience
PA01	1 (one)	B.E./B.Tech in Computer Science / Information Technology with One year working experience in web application development.	<ul style="list-style-type: none"> Working experience in Geoweb services / Spatial Decision Support System/ Location based Services, etc.
PA02	1 (one)	<p>M.Sc. in Agriculture / Forestry / Botany / Life Science / Environmental Science / Geology / Geography / Applied Geography / Physics / or equivalent.</p> <p style="text-align: center;">OR</p> <p>M.Sc. in Remote Sensing / Geoinformatics/ Spatial Information Science / Computer Science/ Information Technology/ or equivalent.</p> <p style="text-align: center;">OR</p> <p>B.E./B.Tech in Computer Science / Information Technology / Electronics and Communication Engineering / or equivalent.</p>	<ul style="list-style-type: none"> Working experience in application of RS and GIS in agriculture and allied areas.

Post Code No.	No. of Position	Essential Qualification	Desired Qualification/ Experience
PA03	1 (one)	M.Sc. in Remote Sensing / Geoinformatics/ Spatial Information Science / Computer Science/ Information Technology / or equivalent. OR B.E./B.Tech in Computer Science / Information Technology / Electronics and Communication Engineering / or equivalent.	<ul style="list-style-type: none"> Working experience in application of RS and GIS in agriculture and allied areas.

ELIGIBILITY:

- (i) M.E./M.Tech degree should be with an aggregate minimum of 60% (average of all semesters) or CGPA/CPI grading of 6.5 on a 10 point scale or equivalent from recognized university.
- (ii) B.E./B.Tech/M.Sc. degree should be with an aggregate minimum of 65% (average of all semesters) or CGPA/CPI grading of 6.84 on a 10 point scale or equivalent from recognized university.

FOR POST CODE RS01:

Candidates having M.E./M.Tech degree in Remote Sensing & GIS and M.E./M.Tech degree in Civil/Agricultural Engineering must mention with supporting proof, the specialization/dissertation in water resources related domain for consideration of their application.

FOR POST CODE JRF01 to JRF06:

The applicants for JRF positions should qualify one of the following tests in relevant discipline (as per advertised discipline) and the year of acquiring qualification along with score card have to be furnished in the online applications:

- i. CSIR-UGC National Eligibility Test including NET-Lecturership
- ii. Graduate Aptitude Test in Engineering (GATE) conducted by MHRD
- iii. Joint Admission Test (JAM) conducted by MHRD
- iv. Biotechnology Eligibility Test & Test conducted in Bio-informatics by Bio-informatics National Consortium
- v. Joint Entrance Screening Test (JEST), Joint Graduate Entrance Examination for Biology & Interdisciplinary Life Sciences (JGEEBILS) conducted by Department of Atomic Energy.
- vi. All India Competitive Examination (AICE) conducted by the Indian Council of Agricultural Research.
- vii. State Level Eligibility Test (SLET) conducted on behalf of the UGC by the National Test Agency.
- viii. **N-JET (NESAC JRF Eligibility Test):** The N-JET 2021 was conducted at NESAC on **15.03.2022**. Candidates having valid Score Cards may apply directly.

1. GENERAL NOTE:

- (i) Number of positions indicated above are provisional and may vary depending on the actual requirement.
- (ii) M.E./M.Tech degree should be with an aggregate minimum of 60% (average of all semesters) or CGPA/CPI grading of 6.5 on a 10 point scale or equivalent from recognized university.
- (iii) B.E./B.Tech/M.Sc. degree should be with an aggregate minimum of 65% (average of all semesters) or CGPA/CPI grading of 6.84 on a 10 point scale or equivalent from recognized university.
- (iv) Rounding-off of marks/CGPA grading is not allowed.
- (v) Candidates must clearly mention with supporting proof, the specialization/ dissertation/ thesis in the relevant field wherever applicable for consideration of their application.
- (vi) All degrees should be duly recognized by AICTE/UGC, or any other organization authorized by Government of India to do so.
- (vii) Experience letter should contain the details of work done by the applicant under different projects.
- (viii) 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 certificate from Association of Indian University (AIU) must also be scanned and attached. Failure to produce equivalency certificate at the time of interview shall lead to disqualification.
- (ix) The qualification prescribed and the benchmark are only the MINIMUM requirement and fulfilling the same does not automatically make a candidate eligible for Interview
- (x) Selection will be purely based on performance in the interview.
- (xi) The Centre reserves the right not to fill up all or any of the positions, if it so decides.
- (xii) The percentage of marks obtained by the candidate would be calculated based on the practice as followed by the respective University/Institution. In case of grades/CGPA, the conversion to percentage of marks would be based on the procedure as certified by the respective University/Institution. If any University/Institution confirms that there is no scheme for converting CGPA into equivalent marks, the equivalence would be established by dividing the candidate's CGPA by the maximum possible CGPA and multiplying the result with 100.
- (xiii) In case candidate is claiming equivalent specialization, he/she has to obtain certificate from his/her institute/university stating that the specialization is equivalent to the one asked in the advertisement for the position applied for. Candidates who do not fulfill eligibility condition will not be considered for the interview.

2. AGE LIMIT:

- **For Research Scientist** : Maximum age 35 years as on **last date of online application**.
- **For Research Associate-I** : Maximum age 35 years as on **last date of online application**.
- **For Junior Research Fellow** : Maximum age 28 years as on **last date of online application**.
- **For Project Associate-I** : Maximum age 35 years as on **last date of online application**.

Relaxation by 5 years in case of SC/ST candidates and 3 years in case of OBC candidates. Ex-Servicemen, Persons with Disabilities are eligible for age relaxation as per Government of India orders. Candidates claiming age relaxation have to submit valid documentary proof.

3. TENURE OF THE POSITIONS:

- **For Research Scientist** : The Research Scientist positions are purely on temporary basis 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 THREE YEARS in total or co-terminus with the project, whichever is earlier, without any provision for regularization.
- **For Research Associate-I** : The Research Associate position is purely on temporary basis 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 THREE YEARS in total or co-terminus with the project, whichever is earlier, without any provision for regularization.
- **For Junior Research Fellow** : The Junior Research Fellow positions are purely on temporary basis and co-terminus with the project without any provision for regularization. Junior Research Fellow will be engaged initially for ONE YEAR or the period of the project whichever is earlier and is extendable for further periods based on assessment of their work and requirement of project. The maximum period of engagement of Junior Research Fellows shall not exceed FIVE YEARS or project duration whichever is earlier.
- **For Project Associate-I** : The Project Associate positions are purely on temporary basis and co-terminus with the project without any provision for regularization. Project Associate will be engaged initially for ONE YEAR or the period of the Project whichever is earlier and is extendable for further periods based on assessment of their work and requirement of project. The maximum period of engagement of Project Associate in any case shall not exceed FIVE YEARS.

The positions of RS/RA/JRF/Project Associate will not confer any claim or right for any regular employment in NESAC and the services are liable to be terminated without any notice and without assigning any reasons thereof.

The Director, NESAC reserves the right to cancel/postpone the interview without any reason thereof. He also reserves the right to terminate the contract/service, even before completion of the tenure/project for which no appeal thereof shall be made.

4. EMOLUMENTS & OTHER BENEFITS:

- **Pay & Allowances for Research Scientist:**
Selected candidates will be offered the Pay in the Level 10 of the Pay Matrix (₹ 56100-177500). The pay will be fixed in the minimum of Pay Level i.e. at present be approximately ₹ 56100/-. In addition DA, HRA and medical benefits for self only will be allowed as per rules.
- **Pay & Allowances for Research Associate-I:** Monthly emoluments ₹ 58,000/-
In addition to the above, HRA and medical benefits for self only will be allowed as per rules. The amount shall be taken as Basic pay for this purpose.

- **Pay & Allowances for Junior Research Fellow:** Fellowship Amount ₹ 37,000/-.
In addition to the above mentioned fellowship amount, HRA at the prescribed rates in force at the place of posting/HRA sanctioned under the respective project whichever is less will be paid and Medical benefits for self only will be allowed as per extant rules. The fellowship amount shall be taken as Basic pay for this purpose.
- **Pay & Allowances for Project Associate-I:** Monthly emoluments ₹ 31,000/-.
In addition to the above HRA at the prescribed rates in force at the place of posting/HRA sanctioned under the respective project whichever is less will be paid and Medical benefits for self only will be allowed as per extant rules.

Junior Research Fellows/Project Associates are eligible only for casual leave while Research Scientists and Research Associates are eligible for leave as per rules of the Institution. Maternity leave as per Govt. of India instructions would be available to all female RSs/RAs/JRFs/Project Associates. Apart from this, the candidates selected will not be entitled to any benefits or concessions admissible to regular employees.

5. **HOW TO APPLY:** The application form will be hosted in the NESAC web-site www.nesac.gov.in from **13.02.2024**. Last date for submission of On-line Application Forms is **05.03.2024** and closing time will be **16:00 Hrs** Candidates need to apply through online mode only.

After registration take a print out of the application summary and the print-out is to be brought along with passport size photograph and documents supporting the data furnished in application at the time of Interview. Registration Number should be recorded by the Candidate for all future correspondences with NESAC with regard to this advertisement.

6. **SELECTION PROCESS:**

The qualification prescribed is the minimum requirement and possession of the same does not automatically make the candidates eligible to be called for interview. A duly constituted Screening Committee shall screen the applications received for the positions based on the following:

- i. The percentage of marks obtained by the candidate would be calculated based on the practice as followed by the respective University/Institution. In case of grades/CGPA, the conversion to percentage of marks would be based on the procedure as certified by the respective University/Institution. If any University/Institution confirms that there is no scheme for converting CGPA into equivalent marks, the equivalence would be established by dividing the candidate's CGPA by the maximum CGPA and multiplying the result with 100.
- ii. In case candidate is claiming equivalent specialization, he/she has to obtain certificate from his/her institute/university stating that the specialization is equivalent to the one asked in the advertisement for the post applied for. Final decision on this will be taken by the Screening Committee. The screened-in/shortlisted candidates will be called for interview before the Selection Committee. Communication shall be sent only to the screened-in/shortlisted candidates. NESAC will not entertain any correspondence on the issue of short-listing of candidates. **The call letters for the interview to the short-listed candidates will be sent only by e-mail.** No communication shall be made to the

candidates who are not short-listed/Screened in. Candidates who do not fulfill eligibility condition will not be considered for the interview.

7. GENERAL CONDITIONS:

- Those who possess the required qualification as on **05.03.2024** only need to apply. Only passed out candidates are eligible to apply. Candidates/Students awaiting for final result cannot apply.
- The prescribed experience, if any, should be after acquiring the essential qualification.
- Applications is to be submitted through online mode only and all further communications will be made to the applicants through E-mail/NESAC website only. Therefore, the applicants are advised to check their e-mail and visit the NESAC website from time to time. NESAC will not take responsibility for non-receipt of intimation regarding call letter/any communication due to technical reasons or whatsoever to the candidates.
- The selected candidates shall be posted at NESAC, Umiam but are liable to be posted anywhere in India at the discretion of Director, NESAC as and when required.
- The selected JRFs are encouraged to register for Ph.D from recognized universities and take up relevant research topic benefitting the individual and NESAC. However they have to work extra time to complete the Ph.D research. No leave is admissible for Ph.D work.
- Candidates called for interview will have to produce all relevant original documents in proof of details furnished in the application along with a set of self-attested photocopies. Candidates who are already employed under Central/State Government, Public Sector Undertakings or Autonomous Bodies will have to produce the **“NO OBJECTION CERTIFICATE”** in original including print out of the application summary, at the time of interview. In case the candidate fails to produce any of the above documents or if any information furnished in the application is found to be wrong or false, the candidate will not be interviewed.
- Request for change of date or place of interview shall not be entertained.
- Candidates are required to provide their valid email-id & contact number while submitting the application. In case of invalid email-id & contact number provided by any candidate, NESAC will not be responsible for the non-communication of any information which will be sent through Email.
- Only Indian Nationals should apply.
- Canvassing in any form will result in disqualification.
- No interim correspondence will be entertained. In case of any issues pertaining to online application, candidates may send mail to applications@nesac.gov.in with clearly mentioning the name of the position in the subject of the e-mail otherwise the query may not be responded and NESAC will not be responsible for not responding.
- **05.03.2024** will be cut-off date for all purposes like age, qualification, etc.
- No TA/DA will be paid for attending the interview.

- Applications submitted without complete information, photo, signature etc. will summarily be rejected.
- If any information furnished in the application is found to be false or wrong at any stage, the candidature shall be cancelled.
- Candidates will be asked to prove their identity by showing any Govt. issued identity card such as AADHAR/Passport/etc. before appearing for the interview.
- Candidates are advised to make their own arrangements for their stay at their cost, if required, for interview.
- Candidates registered under National Career Service (NCS) portal and fulfilling the eligibility conditions may visit NESAC website and follow the application procedure as stated.
- It may be noted that Corrigendum/Addendum, if any, related to any modifications to the essential qualification requirements, no. of post, etc. will be notified in NESAC website only.

“GOVERNMENT STRIVES TO HAVE A WORKFORCE WHICH REFLECTS GENDER BALANCE, HENCE WOMEN CANDIDATES ARE ENCOURAGED TO APPLY”

It is for the candidate to ensure that he/she fulfills the eligibility criteria and complies with the requirements and adhere to the instructions contained in this advertisement. So, Candidates in their own interest are advised to carefully read the advertisement.

Hindi version will follow. In case any differences between English and Hindi Version, then English version will be considered as Final.

IMPORTANT

OPENING DATE FOR SUBMISSION OF ONLINE APPLICATION THROUGH NESAC WEBSITE www.nesac.gov.in IS ON 13.02.2024

CLOSING DATE FOR SUBMISSION OF ONLINE APPLICATION THROUGH NESAC WEBSITE IS 16.00 HRS ON 05.03.2024

DATE FOR DETERMINING THE ELIGIBILITY IN ALL RESPECT SHALL BE THE PRESCRIBED CLOSING DATE FOR SUBMISISON OF ONLINE APPLICATION. THE APPLICANTS ARE ADVISED TO FILL IN THEIR PARTICULARS IN THE ONLINE APPLICATION CAREFULLY.

DATE FOR THE INTERVIEW SHALL BE INTIMATED SEPARATELY.

CANDIDATE SHOULD UPLOAD THE DEGREE AND MARKSHEETS IN ONE PDF FILE FOR ONE PARTICULAR QUALIFICATION e.g. FOR B.E./B.TECH/B.SC./M.TECH/M.SC./PhD./ DEGREE & MARKSHEETS OF ALL THE SEMESTERS SHOULD BE MERGED IN ONE PDF FILE AND UPLOADED AND SIMILARLY FOR OTHERS ALSO.

SIZE OF THE DOCUMENTS TO BE UPLOADED IN PDF ONLY:-

- | | | |
|---|---|--|
| • PWD (Person with Disability) Certificate | : | 1.5 MB (Max size) |
| • OBC/SC/ST Certificate | : | 1.5 MB (Max size) |
| • Ex-serviceman Certificate | : | 1.5 MB (Max size) |
| • Birth Certificate | : | 1.5 MB (Max size) |
| • High School Marksheet & Certificate | : | 1.5 MB (Max size) |
| • Intermediate Marksheet & Certificate | : | 1.5 MB (Max size) |
| • B.E./B.Tech/B.Sc Degree Certificate | : | 2.5 MB (Max size) |
| • B.E./B.Tech/B.Sc Degree Merge Marksheet | : | 2.5 MB (Max size) |
| • B.E./B.Tech/B.Sc - CGPA to % Conversion Document | : | 2.5 MB (Max size) |
| • M.E./M.Tech/M.Sc Post Graduate Degree Certificate | : | 2.5 MB (Max size) |
| • M.E./M.Tech/M.Sc Post Graduate Merge Marksheet | : | 2.5 MB (Max size) |
| • M.E./M.Tech/M.Sc - CGPA to % Conversion Document | : | 2.5 MB (Max size) |
| • NET/GATE/N-JET equivalent (Score Card) | : | 2.5 MB (Max size) |
| • PhD award Certificate | : | 2.5 MB (Max size) |
| • Other Supporting Documents | : | 2.5 MB (Max size) |
| • Merge Work Experience Document | : | 1.5 MB (Max size) |
| • Photograph (only JPG File) | : | 20KB minimum and should not exceed 50 KB |
| • Signature (only JPG File) | : | 20KB minimum and should not exceed 50 KB |