



Government of India
Department of Space
Indian Space Research Organisation
Indian Institute of Remote Sensing
4, Kalidas Road, Dehradun-248 001



Advt. No.: IIRS/P&GA/Estt./Rectt./15

Date: 28.01.2016

Indian Institute of Remote Sensing (IIRS), a unit of Indian Space Research Organisation (ISRO), is a premier institute for capacity building and research in the field of **remote sensing and geoinformatics**. The Institute has a multi-disciplinary and problem oriented research agenda focusing on developing land-ocean-atmosphere applications and understanding Earth's surface and subsurface processes using primarily the space-based technologies. The research programmes are intricately linked to overall goal of ISRO towards operationalization of space-based services for national development.

Young and motivated candidates are invited for the Walk-in interview for the post of JRF under the following research projects:

- (1) **Monitoring and Assessment of Ecosystem Processes and Services in North- Western Himalaya: Modeling temporal and spatial pattern of North Western Himalayan cities (EOAM Project) Sub Theme-5.**

No. of Post: 1 (one)

Essential Qualification: Master's degree in Urban Planning / City Planning/ Regional Planning/Environmental planning/ Civil Engg./ Remote Sensing and GIS/ Geoinformatics/ Geomatics/ Computers/ Environmental Sciences/ Environmental Technology/ Disaster Mitigation and Management/ Geography or equivalent. The candidate shall be **GATE, NET or equivalent*** qualified in any year in the relevant subject.

Desirable Qualification: Candidates with computer programming skills (Python, Matlab, IDL, etc.) and experience in use of Remote Sensing and GIS will be given preference.

Duration: The fellowship will be offered initially for a period of one year, which can be extended further till the duration of the project depending on the performance of the candidate.

- (2) **Automatic Retrieval system and monitoring of water, vegetation and build up at variable scales using remotely sensed images.**

No. of Post: 1 (one)

Essential Qualification: M. Tech/ M. Sc in Geoinformatics/ Remote Sensing/ Geomatics or equivalent with BE in Civil/Electronics/Electrical/Computer science/IT or M. Sc Physics/ Mathematics/ Computer Science/ Applied Mathematics. The candidate shall be **NET or equivalent*** qualified in any year in the relevant subject.

Desirable Qualification: Candidates with Diploma/working experience in Remote sensing/ Geoinformatics/advanced image processing tools and computer programming skills (C, C++, Matlab, IDL, Python, etc.) will be given preference.

Duration: 3 years (1st April 2014 to 31st March 2017)

(3) Soil – Vegetation – Atmosphere Flux Monitoring (National Carbon Project)

No. of Post: 1 (one)

Essential Qualification: M.Sc. in Agriculture Physics / Agriculture Meteorology / Plant Physiology / Agronomy / Environmental Science / Ecology/Atmospheric Science OR M. Tech Remote Sensing & GIS with specialization in Agriculture/Ecology. The candidate shall be **NET or equivalent*** qualified in any year in relevant subject.

Desirable Qualification: Knowledge of statistical/mathematical data processing and computer programming. Diploma in Remote Sensing & GIS applications.

Duration: The fellowship will be offered initially for a period of one year, which can be extended further till the duration of the project (likely up to 2018) depending on the performance of the candidate.

(4) Climate change impact on productivity of food grain and plantation crops

No. of Post: 1 (one)

Essential Qualification: M.Sc. in Agriculture Meteorology / Agriculture Physics / Agronomy/ Plant Physiology / Environmental Sciences **OR** M. Tech in Remote Sensing & GIS with specialization in Agriculture/ environmental sciences. The candidate shall be **NET or equivalent*** qualified in any year in relevant subject.

Desirable Qualification: Knowledge of crop simulation models, remote sensing and grided climate data processing is desirable. Knowledge and experience on LINUX or UNIX based OS and programming skill (C++, Python, IDL, MATLAB) is preferable.

Duration: The fellowship will be offered initially for a period of one year, which can be extended further till the duration of the project (likely up to March 2018) depending on the performance of the candidate.

(5) Monitoring and Assessment of Ecosystem Processes & Services in North-Western Himalaya sub-theme – 4: Water Resource Status and Availability” (2012-2017).

No. of Post: 1 (one)

Essential Qualification: M. Tech in Agriculture Engineering/Civil Engineering/Computer Sciences/Remote Sensing and GIS/Geomatics or equivalent **OR** M.Sc. in Hydrology/ Atmospheric Sciences/ Physics/ Mathematics/ Geo-informatics or equivalent. The candidate shall be **NET or equivalent*** qualified in any year in the relevant subject.

Desirable Qualification: Candidates with Post Graduate Degree or Diploma in Water Resources/ Remote Sensing / Geo-informatics with Hydrology as specialization from reputed University/Institute in India/abroad, work experience in retrieval and assimilation of hydro-meteorological parameters from remote sensing in hydrological model, work experience with VIC, SWAT and other hydrological models,

snow and glacier melt runoff modeling and computer programming skills (C++, Matlab, Python, MPI and IDL) with knowledge of Linux will be given preference.

Duration: The fellowship will be offered initially for a period of one year, which can be extended further till the duration of the project depending on the performance of the candidate.

- (6) **Remote sensing, ground observations and integrated modeling based early warning system for climate extremes of North West Himalayan region”, (2014-2017).**

No. of Post: 1 (one)

Essential Qualification: M. Tech in Agriculture Engineering/Civil Engineering/Computer Sciences/Remote Sensing and GIS/Geomatics or equivalent OR M.Sc. in Hydrology/ Atmospheric Sciences/ Physics/ Mathematics/ Geo-informatics or equivalent. The candidate shall be **NET or equivalent* qualified** in any year in the relevant subject.

Desirable Qualification: Candidates with Post Graduate Degree or Diploma in Water Resources/ Remote Sensing / Geo-informatics with Hydrology as specialization from reputed University/Institute in India/abroad, work experience in retrieval and assimilation of hydro-meteorological parameters from remote sensing in hydrological model, work experience with flood modeling and other hydrological models and computer programming skills (C++, Matlab, Python, MPI and IDL) with knowledge of Linux will be given preference.

Duration: The fellowship will be offered initially for a period of one year, which can be extended further till the duration of the project depending on the performance of the candidate.

- (7) **Ensemble hydrological modeling approach for integrated water balance studies for dynamic water resources assessment in geospatial environment for Indian River basins”, (2016-2019).**

No. of Post: 1 (one)

Essential Qualification: M. Tech in Agriculture Engineering/Civil Engineering/Computer Sciences/Remote Sensing and GIS/Geomatics or equivalent OR M.Sc. in Hydrology/ Atmospheric Sciences/ Physics/ Mathematics/ Geo-informatics or equivalent. The candidate shall be **NET or equivalent* qualified** in any year the relevant subject.

Desirable Qualification: Candidates with Post Graduate Degree or Diploma in Water Resources/ Remote Sensing / Geo-informatics with Hydrology as specialization from reputed University/Institute in India/abroad, work experience in retrieval and assimilation of hydro-meteorological parameters from remote sensing in hydrological model, work experience with hydrological models, ensemble predictions and computer programming skills (C++, Matlab, Python, MPI and IDL) with knowledge of Linux will be given preference.

Duration: The fellowship will be offered initially for a period of one year, which can be extended further till the duration of the project depending on the performance of the candidate.

(8) Urban Micro climatic zoning for sustainable smart city planning of Indian Cities using geospatial techniques

No. of Post: 01 (One)

Essential qualification: Master's degree in Urban Planning / City Planning/ Regional Planning/Environmental planning/ Civil Engg./ Remote Sensing and GIS/ Geoinformatics/ Geomatics/ Computers/ Environmental Sciences/ Environmental Technology/ Disaster Mitigation and Management/ Geography or equivalent. The candidate shall be **GATE, NET or equivalent*** qualified in any year in the relevant subject.

Desirable Qualification: Candidates with computer programming skills (Python, Matlab, IDL, etc.) and experience in use of Remote Sensing and GIS will be given preference.

Duration: The fellowship will be offered initially for a period of one year, which can be extended further till the duration of the project depending on the performance of the candidate.

- * i) CSIR-UGC National Eligibility Test including NET-Lectureship.
- ii) Graduate Aptitude Test in Engineering (GATE) conducted by MHRD.
- iii) Joint Admission Test (JAM) conducted by MHRD.
- iv) Graduate Pharmacy Aptitude Test (GPAT) conducted by MHRD.
- v) Biotechnology Eligibility Test & Test conducted in Bio-informatics by Bio-informatics National Consortium.
- vi) Joint Entrance Screening Test (JEST), Joint Graduate Entrance Examination for Biology & Interdisciplinary Life Sciences (JGEEBILS) conducted by the Department of Atomic Energy.
- vii) JRF Entrance Examination conducted by the Indian Council of Medical Research.
- viii) All India Competition Examination (AICE) conducted by the Indian Council of Agricultural Research.

* NET or equivalent qualified in any period.

Age limit: The age limit is 30 years on the closing date of receipt of applications but relaxable for 5 years in case of SC/ST candidates and 3 years in case of OBC candidates.

Fellowship & Duration: JRFs will be paid an amount of Rs. 25,000/- (Rupees Twenty Five Thousand Only) per month as fellowship. The selected candidate after having two years of Research experience in the Project mentioned above along with JRF qualification, may be considered for SRF with a fellowship of Rs. 28,000/- (Twenty Eight Thousand Only) per month. D.A. is not admissible. However, they will be eligible for H.R.A. as per the rules of Government. For this purpose, the fellowship amount will be taken as Basic Pay. JRFs will be allowed to avail the CHSS (medical) facility for self only. DA, CCA, Bonus, LTC, retirement benefits, etc. are not admissible.

Walk-in Interview Schedule:

Post No.	Date	Reporting Time
3	02/03/2016	0900 hrs
4	02/03/2016	0900 hrs
5	02/03/2016	0900 hrs
6	02/03/2016	0900 hrs
1	03/03/2016	0900 hrs
2	03/03/2016	0900 hrs
7	03/03/2016	0900 hrs
8	03/03/2016	0900 hrs

Venue: Visiting Scientist Hostel
IIRS Campus
4 Kalidas Road, Dehradun,
Uttarakhand – 248 001.

Selection process: On the date of walk-in interview, the Qualification of the candidates will be verified with the certificates and supporting documents and with eligibility criteria viz. age & essential qualification. The walk-in interview of eligible candidates will be conducted by the selection committee and on the basis of qualification and interview performance, the candidate will be selected.

Government strives to have a workforce which reflects gender balance and women candidates are encouraged to apply.

How to apply:

Candidates shall come for **walk-in interview** on the prescribed date with the duly filled application form along with original certificates in support of Qualification for verification. The application format is hosted on our website www.iirs.gov.in. There is NO need to send the duly-filled application form to IIRS by mail/post. Candidate need to bring duly filled application form at the time of walk-in interview only.

Candidates may please intimate their willingness to appear in interview by e-mail to indra@iirs.gov.in.

If any query/doubt regarding eligibility, Candidates shall feel free to call/e-mail at 0135-2524324/indra@iirs.gov.in.

Other conditions/instructions:

1. Only passed candidates are eligible to apply. Students awaiting for final result need not to apply.
2. Education, Experience, Caste/tribe, Identity certificate shall be produce at the time of interview otherwise the candidature of the candidate will be cancelled.
3. Candidates belonging to OBC must submit a certificate specifically including the clause regarding exclusion from creamy layer which should be updated/valid at the time of interview.

4. Mere fulfillment of the qualitative requirements of the posts will not entail a candidate to be selected.
5. CGPA shall be converted into percentage of marks as per the candidate's university norms.
6. Those who are already in employment under the Central Government/State Government/Public Sector Undertaking/Autonomous Body or any organizations which is aided by the Government, shall produce "No Objection Certificate" from the employer at the time of interview otherwise the candidature of the candidate will be cancelled.
7. Only Indian National needs to apply.
8. No interim correspondence will be entertained. IIRS reserves the right not to fill the position, if it desires so. Canvassing in any form will be a disqualification.
9. Candidates who fulfill minimum Education qualification, age criteria and appear for interview will be paid fare of Sleeper Class or its equivalent on producing the tickets.
10. The interview venue is located about 05 kms. from Dehradun Railway Station and 10 kms. from ISBT, Dehradun. In order to reach venue, you may board Vikram (Blue colour passenger Tempo) up to Clock Tower then from Astley Hall to Hathibarkala Post Office in order to reach the venue. In case of any difficulty, candidate may contact at 0135 - 2524100.