

**Government of India
Department of Space
Indian Space Research Organisation
SPACE APPLICATIONS CENTRE
Ahmedabad – 380 015**

**Site for online application will be open from 14.6.2009 to 30.6.2009 from
08:00 hours to 20: 00 hours.**

Advertisement No.SAC: 01/2009

Space Applications Centre (SAC), Ahmedabad is one of the lead Centres of Indian Space Research Organisation (ISRO), Department of Space (DOS). SAC focuses on design of space borne instruments for terrestrial and planetary missions of ISRO and development and operationalisation of space technology for national development. The applications cover communication, broadcasting, navigation, disaster monitoring, meteorology, oceanography, environment monitoring and natural resources survey. SAC designs and develops all the transponders for the INSAT and GSAT series of communication satellites and the optical and microwave sensors for IRS series of earth observation satellites. Further SAC develops ground transmit and receive systems and data / image processing systems. SAC has highly sophisticated payload design and integration laboratories and facilities for electronic and mechanical fabrication, environmental tests and image processing and analysis. Campus library of SAC is the finest in western region. SAC is also actively involved in imparting training to scientists and engineers from the Asia Pacific region through the nine months PG diploma programs of the UN-CSSTEAP.

SAC has made pioneering contributions in the field of agriculture, forestry, coastal zone management, urban planning, snow and glacier studies, oceanography and atmospheric studies. SAC has developed concept and techniques for pre-harvest estimation of production of major crops under multi-agency FASAL project, forecasting of potential fishing zones using OCM and other satellite data, studies of Himalayan glaciers and snow cover and monitoring of coastal zones using optical as well as microwave remote sensing data. Methodology for tracking cyclones in terms of direction and land falls has been developed and used for recent cyclones like Gonu, Nargis etc. Algorithms have also been developed to derive ocean parameters like sea surface temperature, wind speed, wave heights etc as well as atmospheric parameters such as water vapour, cloud liquid water content etc.

Present thrust areas for applications are towards utilization of data from Indian satellite missions including INSAT-3D, Oceansat-2, Cartosat series RISAT, Resourcesat-2, Meghatropiques, etc and the planetary mission like Chandrayaan-1. A Programme on Climate change Research in Terrestrial environment (PRACRITI) is initiated to study the impact of climate change on Agriculture System, Himalayan, Cryosphere, Terrestrial Hydrology over India and Sensor System Studies for Monitoring of Green House Gases.

SAC invites **on-line** applications for **JUNIOR RESEARCH FELLOWS (JRF) AND RESEARCH ASSOCIATES (RA)** as per the following:

Junior Research Fellows:

Post No.	Subject Specialisation	Essential Qualifications
1	Physics/Applied Physics	M.Sc./M.Tech. FIRST CLASS with 65% marks or above.
2	Geophysics/Applied Geophysics	
3	Remote Sensing/Geoinformatics	
4	Environmental Science/Botany/Plant Physiology/Ecology	
5	Soil/Agriculture Sciences	
6	Agriculture/Crop Physiology/Soil Science/Agrometeorology/Agricultural Physics	
7	Geology/Applied Geology	
8	Physical Oceanography	
9	Atmospheric Science	
10	Mathematics/Applied Mathematics	
11	Physics: Optics/Applied Optics/Electronics	

Knowledge of Computer Programming is desirable for all posts.

Job Description:

Post Nos. 1-10: Selected candidates will be engaged in research involving analysis of remote sensing data for deriving/retrieval of Bio-Physical/Physical parameters like ocean colour chlorophyll, leaf area index, Normalised difference vegetation index etc. and Physical parameters like Insolation, Albedo, Land surface temperature etc., their validation and use in process models for agriculture (Crop growth simulation model), environment, hydrology, ocean and atmosphere and for planetary studies using Chandrayaan-1 data.

Post No.11 : The selected candidate will be involved in R & D related to optical systems, detectors and related electronics for space borne electro-optical sensors which will involve optical design and analysis, test set up development, focal plane assembly along with design of onboard data processing algorithms and development of ASIC with advanced ADC and processor architecture.

Fellowship amount: (JRF)

Rs.12000/- per month + 20% H.R.A. (for 1st and 2nd year)
Rs.14000/- per month + 20% H.R.A. (subsequent years)

Research Associates:

Post No	Subject	Essential Qualification
12	Atmospheric Science/ Oceanography	Fresh Ph.D OR Thesis submitted and viva-voce is due shortly.
13	Physics/Geophysics/Agricultural Physics	Fresh Ph.D. Or M.Sc. FIRST CLASS with 65% marks or above, with 4 years research experience.
14	Crop Physiology/Plant Physiology/ Agrometeorology	Fresh Ph.D. Or M.Sc. FIRST CLASS with 65% marks or above, with 4 years research experience.

Job Description:

Post No. 12: Analysis of satellite data to retrieve geo-physical parameters using radiative transfer theory and studies of atmospheric and oceanographic processes through numerical models and simulations.

Post Nos.13 & 14 : Selected candidates will be required to work in a multi-disciplinary team for insitu data collection and analysis of remote sensing data. It will involve deriving/retrieval of Bio-physical/Physical parameters from Remote Sensing data, their validation and use in process based models for agriculture, forestry and environmental applications.

Associateship amount:

Rs.16,000/- per month + 20% H.R.A.-	Research Associateship "A"
Rs.17,000/- per month + 20% H.R.A.-	Research Associateship "B"
Rs.18,000/- per month + 20% H.R.A.-	Research Associateship "C"

Candidates would be awarded one of the above grades of Associateship amount depending on their merit as assessed by the Selection Committee.

How to apply

- Application should be registered **on-line only**. Upon registration, applicants will be provided with an **on-line Registration Number**, which should be carefully preserved for future reference. It is also mandatory to send hard copy of on-line application summary with signature and colour photograph pasted in the appropriate column along with attested true copies of the testimonials such as Marksheets and certificates of all Educational Qualification, Caste certificate (if applicable), experience certificate etc. to the following address superscribing the **Advertisement Number, Post Number and Registration Number on the Front side of the cover and should reach on or before 10/07/2009 through ordinary post only.**

**ADMINISTRATIVE OFFICER
RECRUITMENT SECTION (P & GA)
BUILDING NO. 30-D,
SPACE APPLICATIONS CENTRE (ISRO)
AMBAWADI VISTAR P.O.
AHMEDABAD – 380 015**

GENERAL INFORMATION

1. Candidates who are slated to complete Post Graduate Degree course in the academic year 2008-2009 are eligible to apply provided final Degree is in **First class with 65%**. The final mark-sheet and result should be submitted to reach us on or before **August 10, 2009** failing which application will be rejected.
2. **Age as on 30.6.2009:** Less than **30 years** for Junior Research Fellows and **35 years** for Research Associates but relaxable by **5 years** in case of SC/ST candidates and **3 years** in case of OBC candidates. The age limit in case of Ex-servicemen and Persons with Disabilities (PWD) will be relaxed as per the Government of India Orders.
3. Space Applications Centre is recognized as a Research Centre of many Indian Universities and selected candidates shall have the opportunity of working in the advanced research area under the guidance of senior scientists. They shall also be encouraged to register for Ph.D Degree in Indian Universities.
4. Junior Research Fellows and Research Associates will be engaged initially for **one year** and their terms shall be extended based on need and assessment of their work and requirement of project. The maximum period of engagement of **Junior Research Fellow** shall not exceed **four** years. The fellowship/associateship will not confer any claim or right for regular appointment in any of ISRO/DOS Centres.
5. Clearance of appropriate authority will have to be taken before publishing any work/report.
6. Leave and medical facilities will be extended as applicable.
7. Out-station candidates called for test/interview will be paid to-and-fro second-class railway fare by the shortest route on production of proof of journey, such as the railway ticket number or bus tickets etc. The candidates will also have to produce documentary proof in original, of the details furnished in their application at the time of attending the test/interview.
8. Only Indian Nationals need apply.
9. Applications received against the advertisement will be short-listed, if found suitable, and SAC reserves the right not to fill up any of the positions, if it so decides.
10. Canvassing in any form will be a disqualification and no interim correspondence will be entertained.
11. Candidates working in Government/Public Undertaking/Quasi-Government/Autonomous Organisation should ensure that their applications are sent through proper channel. In case, they anticipate any delay in forwarding their applications, they may submit advance copies of their applications before the due date. However, they should produce at the time of attending the test/interview in SAC, either a '**NO OBJECTION CERTIFICATE**' from their respective organisation in original, or an attested copy of the communication under which their applications have been forwarded to SAC for consideration.

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12. Candidate should produce original testimonials/certificates, as a proof of the details furnished in their applications, at the time of test/interview for verification failing which they will not be allowed to appear for test/interview nor the cost of the travel reimbursed/paid
13. **Stipulated experience will be reckoned only after acquiring essential qualification.**
14. No correspondence will be entertained with the candidates who are not short-listed for test/interview.
15. Incomplete applications and those received after the due date will be rejected out-right.

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