

PUNJAB REMOTE SENSING CENTRE

(A Government of Punjab Enterprise)
PAU CAMPUS, LUDHIANA 141 004

www.prsc.gov.in

Advertisement No. 04/2021

CATEGORY - 1

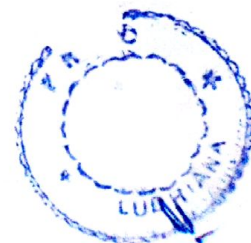
Applications are invited from Indian young dynamic eligible candidate through registered/speed posts who has passion for innovation and work with contemporary technologies such as application of Space and Geospatial and development of ICT tools for the welfare of people. Selection by short listing of candidates based on meeting all criteria's of prescribed qualifications, experience and related details as mentioned in the advertisement. If required Written/Practical and/or Skill Test shall be conducted by the center. The posts of Scientist SC is purely on contractual basis (as per detailed advertisement) **for a period of five years on yearly basis**, and extendable based on candidate's satisfactory performance, review and Project Scheme/Centers requirements. The selected candidates shall be posted at any locations in Punjab/Chandigarh as per the project work requirements. The shortlisted candidate will be informed by email and mobile as given in the applications reached before test/interview date. However, PRSC cannot take any responsibility in case either of it may be non reachable or contactable for any reason. The candidates may choose to check with the office in this regard if he/she may not receive information. Also check PRSC official website for any updation time to time.

1.1 Scientist SC - 01 Posts

Essential Qualifications:

- i) First Class M.E/M.Tech./M.Sc. in Geospatial Technology/Sciences (Remote Sensing & Geographic Information System/ Geomatics/ Geoinformatics/ Spatial Information Technology/ Geospatial Technology/ Geoinformatics & Surveying Technology/ Remote Sensing and Geomatics/ Geoinformatics and Remote Sensing or equivalent) OR Computer Science and Engineering/ Information Technology/Data Science or equivalent in First Class with good knowledge of Geospatial.
- AND**
- ii) First Class B.E/ B.Tech/B.Sc. in Electronic and Telecommunication Engineering or equivalent/ Civil Engineering or equivalent or Computer Science and Engineering/ Information Technology or equivalent or Geoinformatics/ Geomatics or equivalent (with mathematics and physics) in.
 - iii) Punjabi upto Matric level. If not the appointee will have to pass Punjabi upto Matric level within one year.

Please refer **Annexure 'A'** for details of prescribed qualifications.



Pay Scale:15600-39100 + Rs.5400/- Grade Pay + Plus allowance.

Age: 18-37 years as on 01.01.2021

Age relaxation

1. For Scheduled Castes/Backward class candidates of Punjab State Only, the Upper age limit shall be relaxed up to 42 years.
2. For Physical Handicapped candidates of Punjab State only, the upper age limit shall be up to 47 years by granting relaxation of 10 years.

The age relaxation benefit shall be as per Punjab Govt. Norms and shall be subject to submission of required certificate at the time of submission of with application form.

CATEGORY – 2

Applications are invited from Indian nationals young dynamic eligible candidates through registered/speed posts for various posts as mentioned below purely on contractual basis for a period of **one year** and extendable, based on candidate's satisfactory performance, review and Project Scheme/Centre's requirements.

2.1 Multi-Tasking Executive (General) - 1 Post

Pay Scale: Rs. 35000/- per month consolidated.

Essential Qualifications:

Graduation in any discipline with minimum 2nd Division
and

One year diploma in computer Applications from a Government recognized institution or a reputed institution, which is ISO 9001, certified or its equivalent.

and

One year Experience in the field of Accounts, Purchase/Stores in any Govt./Semi Govt./Pvt. Institution

and

Must have passed Punjabi language examination up to Matric or its equivalent standard.

2.2 Programmer:- 01 Post

Pay Scale: Rs.35000/- per month consolidated.

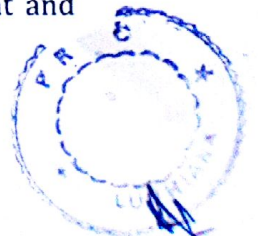
Essential Qualifications:

First Class M.E./M. Tech. in Information Technology (IT)/Electronics and Communication (EC)/Computer Science (CS)/Computer Science & Engineering (CSE).

OR

First Class B.E./B.Tech./MCA/M.Sc. in Information Technology (IT)/Electronics & Communication (EC)/Computer Science (CS)/Computer Science & Engineering (CSE) and experience of at least one (1) year in the field of Information and Communication Technology, Programming, Mobile/Desktop/Web based Application Development and E-Governance.

and



Must have passed Punjabi language examination upto Matric level or its equivalent standard OR must pass within one year of joining.

Desirable Qualifications: Proficiency in programming languages (.Net/ASP/VB/C/C++/C#/Python/ Java/Java Script/HTML), Frameworks of Web and Desktop Application Development, RDBMS, Operating System (Linux/Windows), Open-Source Tools, Web Technologies, Knowledge of AI and Machine Learning Techniques, Information and Communication Technologies (ICT), Mobile/Desktop/Web based Application Development and e-Governance. Knowledge of GIS & Remote Sensing will be an added advantage.

2.3 Web Application Developer: - 02 Posts

Pay Scale: Rs. 35000/- per month consolidated.

Essential Qualifications:

First Class B.E./B.Tech./MCA/M.Sc. in Information Technology (IT)/Electronics & Communications (EC)/Computer Science (CS)/Computer Science & Engineering (CSE).
and

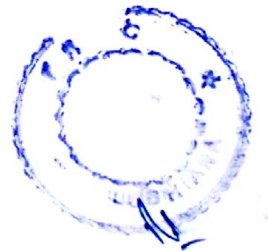
Must have passed Punjabi language examination upto Matric or its equivalent level OR must pass within one year as per rules

Desirable Qualifications: Proficiency in programming languages (.Net/ASP/VB/C/C++/C#/Python/Java/Java Script/HTML), Frameworks of Web and Desktop Application Development, RDBMS, Operating System (Linux/Windows), Open Source Tools, Web Technologies, Knowledge of AI and Machine learning Techniques, Information and Communication Technologies (ICT), Mobile/Desktop/Web based Application Development and e-Governance. Knowledge of GIS & Remote Sensing will be an added advantage.

Age:The age limit for all the posts under Category -2 is 18-37 years as on 01-01-2021.

Age relaxation

1. For Scheduled Castes/Backward class candidates of Punjab State Only, the Upper age limit shall be relaxed up to 42 years.
2. For Physical Handicapped candidates of Punjab State only, the upper age limit shall be up to 47 years by granting relaxation of 10 years.
3. The age relaxation benefit shall be as per Punjab Govt. Norms and shall be subject to submission of required certificate at the time of submission of with application form.



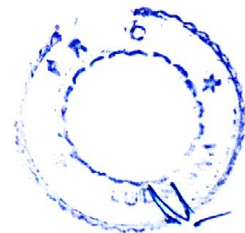
Other conditions (For both Category-1 and Category 2 Posts)

- ❖ Prescribed application form can be downloaded from PRSC website www.ppsc.gov.in. The filled in application forms complete in all respects along with certificates testimonials and supporting documents in response to qualifications and experience and non refundable application fee (@ Rs. 1500/-for the post of Scientist-SC and Rs. 1000/- for all other posts) by cash receipt or Demand Draft (in favour of Director, Punjab Remote Sensing Centre payable at Ludhiana) must be submitted in the office of Punjab Remote Sensing Centre (PRSC), PAU Campus Ludhiana-141 004 on or before the last date of receipt of applications.
- ❖ Based on the bio-data, screening will be conducted to short-list candidates for interview, written/practical test as may require and applicable.
- ❖ If any information furnished is found to be wrong or false, candidature of the candidate will be cancelled at any time as and when it comes to the notice and liable for prosecutions as per laws.
- ❖ Apply through proper channel if already employed or produce **"No Objection Certificate"** from present employer at the time of interview.
- ❖ The duly filled in application alongwith other supporting documents should reach the office of the Director, PRSC latest by **20th July, 2021** otherwise the application will be rejected. Appointment to these posts shall be governed by the Terms & Conditions at the time of joining. Any kind of postal delays will not be the responsibility of this office. Interview/written test, call letter shall be issued only to short-listed candidates who fulfils the prescribed qualifications, experience etc.
- ❖ **No TA/DA will be paid.**
- ❖ Separate application form along with the non refundable fee as mentioned above is to be filled up in case candidate applies for more than one post.
- ❖ Candidate having more experience and qualifications in relevant field and meeting all criteria as prescribed against each post shall be given weightage.
- ❖ Just screening of candidate may not qualify his/her for the post until go thoroughly to complete selection process and due recommendations and approval of the competent authority.
- ❖ Candidates are advised to visit our official website for any updates/information or change of selection dates in special circumstances as may be arising.
- ❖ Canvassing in any form will lead to summarily rejection of candidature and blacklisting of candidates.

PRSC reserve the right to fill or not to fill or partially fill or increase the above position. In all cases decision of Director, PRSC will be final and binding.

Note: Candidates those who cannot produce original degrees (including Provisional Degree Certificate - PDC), Date of Birth, conversion factor of CGPA and Marksheets etc. will not be entertained.

Sd/-
Director



Annexure-A

Post Name	Essential Qualification	Desirable qualification and Experience	Additional Information
Scientist SC (Geospatial Data science) Five year term and extendable on contractual basis	<p>I. M.E/M.Tech/M.Sc. in Geospatial Technology/Sciences(Remote Sensing & Geographic Information System/ Geomatics/ Geoinformatics/ Spatial Information Technology/ Geospatial Technology/ Geoinformatics & Surveying Technology/ Remote Sensing and Geomatics/ Geoinformatics and Remote Sensing or equivalent)OR Computer Science and Engineering/ Information Technology or equivalent in First Class with good knowledge of Geospatial.</p> <p>AND</p> <p>B.E/ B.Tech/B.Sc. in Electronic and Telecommunication Engineering or equivalent/ Civil Engineering or equivalent or Computer Science and Engineering/ Information Technology or equivalent or Geo-informatics/ Geomatics or equivalent in First Class.</p>	<p>Good Working experience in GeoWeb service/ Spatial Decision Support System, Internet of Thing/ Artificial Intelligence/ Deep Learning/ Big Data Analytics etc. for Geospatial data. Good knowledge of C++, Java, RDBMS for RS & GIS applications 2. Knowledge in web GIS using Geoserver, Mapserver, UML, XML, open layers, JQuery and free/open source will be an added advantage. 3. Working experience in Digital Image Processing/spatial modeling/Hyperspectral/Micro wave satellite image processes/automation</p>	<p>Work on automatic feature extraction/recognition, Geospatial Big data analysis, etc.</p> <p>To support work of PRSC. Job profile may also require frequent field visits.</p>

Indicative tools, and skills for AI/ML/ BigData and Geoanalytic Scientist requirement.

AI/ ML / Subject Lines	ML Tools
<ul style="list-style-type: none"> • Programming Languages (Java, R, C, C++, Python) • Linear algebra, Calculus, Statistics (concepts of Matrices, Vectors, and Matrix Multiplication, Naive Bayes, Gaussian Mixture Models, and Hidden Markov Models etc.) • Applied Math and Algorithms (Gradient Descent, Convex Optimization, Lagrange, Quadratic Programming, Partial Differential equation, and Summations.) • Neural Network Architectures <p>In addition to the above skills candidate should equipped with subject knowledge (Remote Sensing & GIS, Geo-analytics)</p>	<ul style="list-style-type: none"> • TensorFlow • Spark and Hadoop • R Programming • Apache Kafka • Weka • MATLAB • Google Cloud ML Engine • Amazon Machine Learning • PytorchJupyter Notebook • IBM Watson

