



राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्थान  
NATIONAL INSTITUTE OF OCEAN TECHNOLOGY

(पृथ्वीविज्ञानमंत्रालय, भारतसरकार)

(Ministry of Earth Sciences, Government of India)

रासप्रौसपरिसर, वेलाचेरीतांबरमरोड, चेन्नै- 600 100

NIOT CAMPUS, VELACHERY-TAMBARAM ROAD, CHENNAI - 600 100

Phone: 91-44-66783300 Mail: postmaster@niot.res.in

**ADVERTISEMENT No. NIOT/2020/01 (Regular)**

National Institute of Ocean Technology (NIOT) invites applications from Indian Nationals for recruitment of the following post. The detailed requirements for these posts and the procedure for submitting applications have been uploaded on website link

<https://www.niot.res.in/index.php/recruitment>

Name of the Post	Discipline	Mode of recruitment	Pay Level in the Pay Matrix (as per VII CPC)	No. of vacancy & Category
Scientist – F	Electrical Engg.	Direct Recruitment	Pay Level 13A	1 post; UR
Scientist – C	Civil Engg.	Direct Recruitment	Pay Level 11	1 post; UR
Scientist – B	Mechanical/ Marine Engg.-1	Direct Recruitment	Pay Level 10	1 post; SC
Scientist – B	Civil Engg.-1	Direct Recruitment	Pay Level 10	1 post; UR
Technician Grade – A	Electrician / Instrumentation	Direct Recruitment	Pay Level 02	1 post; ST

Director



**NATIONAL INSTITUTE OF OCEAN TECHNOLOGY**  
**(Ministry of Earth Sciences, Government of India)**

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National Institute of Ocean Technology (NIOT), Chennai, an autonomous body under the Ministry of Earth Sciences, Govt. of India, is functioning with broad objectives of promoting technology development in various mission mode activities in Ocean Engineering and Ocean Resource utilization. The institute invites online applications through the website link <http://www.niot.res.in/index.php/recruitment> for direct recruitment to the following posts from talented and motivated Indian citizens possessing the qualifications prescribed in the table below:-

Post code	SF-Electrical-01-2020
Name of the post	<b>Scientist – F (Electrical)</b>
Number of post	01 (One) – Unreserved
Age Limit	Not exceeding 50 years
Qualification	<b>Essential:</b> Bachelor's degree in Electrical / Electrical and Electronics Engineering or Technology in relevant subject from a recognized University or its equivalent with at least First Class (60% marks) in the qualifying degree level.  <b>Desirable:</b> Master's degree in Electrical Engineering / Power Electronics and Drives / Power Systems / High Voltage Engineering / Control and Instrumentation or equivalent from a recognized University / Institute.
Experience	<b>Essential:</b> Sixteen years experience in Research and Development, Survey, Planning, Administration, Supervision or training, etc., in the general field of ocean technology and engineering like power systems and underwater systems, control and guidance of underwater vehicles, underwater communications, design and development of electrical / electronics for under water system etc.  <b>Desirable:</b> Experience in policy making, planning or management, etc., related to execution of projects in the area of ocean technology and engineering.
Job Requirement	i) Design, integration, assembly, testing, operation and maintenance of marine and subsea Electrical systems, Power electronic converters, Solid state drives, power transmission systems, Brushless DC motor controllers, Permanent magnet synchronous Generators, medium voltage high frequency systems, Renewable energy systems (small/off/on grid). ii) Simulation, modeling and analysis using soft-wares like Magnet, Motor Solve, Thermnet and Speed, PSIM, MATLAB, Simulink / Usage of soft-wares like and NI Labview, Electrical CAD iii) Design and implementation of Instrumentation and closed loop control for medium voltage Electrical systems, design of instrumentation system for desalination plants. iv) Field testing of the systems/ equipments developed by NIOT onboard designated ship/ platform at sea.
Pay Scale	Pay Level 13A (Rs. 131100 - 216600) and allowances as admissible under 7 <sup>th</sup> CPC
Selection Procedure	Through Interview

### **Screening of Applications for the Post of Scientist-F (Electrical)**

The preliminary screening of the applications will be based on candidate's qualifying credentials against (i) the essential requirements specified above, (ii) date of birth (inclusive of relaxation of age as applicable), (iii) completeness of the application like providing the details sought, submission of the passport size photograph, and copies of the marks list, academic and experience certificates, signature etc. (iv) essential experience, (v) desirable qualification and experience as specified in the above. The candidate's experience certificates shall be in the **format attached**, clearly specifying whether he/she possess the experience / knowledge / skills / meeting the experience requirements.

The prescribed essential qualifications are minimum requirements and the mere possession of the same does not entitle candidates to be called for interview. The application complete in all respect will be screened by a duly constituted committee. The Committee will scrutinize the experience possessed by the candidate with reference to the job requirement and shortlist the number of application to a reasonable limit. The final selection of the candidate will be based on the candidate's performance in the interview. No correspondence will be entertained with candidates who are not called for interview/selected for appointment.

Post code	SC-Civil-02-2020
Name of the post	<b>Scientist – C (Civil)</b>
Number of post	01 (One) – Unreserved
Age Limit	Not exceeding 40 years
Qualification	<b>Essential:</b> Bachelor's degree in Civil Engineering from a recognized University with at least First Class (60% marks) in the qualifying degree level. <b>Desirable:</b> Master's degree in Civil / Structural / Ocean Engineering or equivalent from a recognized University / Institute.
Experience	<b>Essential:</b> Three years experience in Research and Development, Survey, Planning, Supervision or training, etc., in any of the areas of ocean technology or engineering like offshore structure design and implementation, coastal protection, port and harbor engineering, environmental engineering. <b>Desirable:</b> Experience in policy making, planning or management, etc., related to execution of projects in the area of ocean technology and engineering.
Job Requirement	i) Coordination, analysis, design and execution of civil / structural works for offshore plants, analysis and design of the offshore components such as moorings, fixed / floating structures, numerical modeling of coastal / oceanographic processes, analysis and design of submarine pipeline, material studies for offshore structures. ii) Planning, analysis and design of foundations for onshore and offshore structures. Onshore and offshore geotechnical investigations, study of field soil characteristics, laboratory soil testing and analysis, review test results and develop design recommendations. iii) Planning and preparing construction schedules, drawings, BOQ and estimation; technical specification of works, co-ordination with officials for carrying out works, preparing master plan and interior layouts; supervising the work, conducting quality test, recording site measurement and certification. iv) Applications of software like STAAD PRO, ANSYS, SAP, SACS, SESAM, WAMIT, Orcaflex, MOSES, PLAXIS, PRIMAVERA, MS PROJECT is preferred.
Pay Scale	Pay Level 11 (Rs. 67700 - 208700) and allowances as admissible under 7 <sup>th</sup> CPC
Selection Procedure	Through Test/Interview

Post code	SB-Mech-03-2020
Name of the post	<b>Scientist – B (Mechanical / Marine)</b>
Number of post	01 (One) – <b>Reserved for 'SC'</b>
Age Limit	Not exceeding 40 years (35 years + 5 years) for SC candidates
Qualification	<b>Essential:</b> Bachelor's degree in Mechanical / Marine Engineering from a recognized University with <b>at least First Class</b> (60% marks) in the qualifying degree level. <b>Desirable:</b> Master's degree in Mechanical / Marine Engineering /Naval Architecture or equivalent from a recognized University / Institute.
Job Requirement	i) Ship management, Participating in cruises as representative of NIOT, ship maintenance monitoring. ii) Assist in Deployment and Retrieval of floating and underwater systems from ships. iii) Design of Mechanical Systems / Structures & Fabrication, Assembly, Integration and Testing in the Lab / Sea. iv) CAD and CFD applications with softwares like AUTOCAD, ANSYS, Solid Works and PRO-E.
Pay Scale	Pay Level 10 (Rs.56100 - 177500) and allowances as admissible under 7 <sup>th</sup> CPC
Selection Procedure	Through Test / Interview

Post code	SB-Civil-04-2020
Name of the post	<b>Scientist – B (Civil)</b>
Number of post	01 (One) – Unreserved
Age Limit	Not exceeding 35 years
Qualification	<b>Essential:</b> Bachelor's degree in Civil Engineering from a recognized University with <b>at least First Class</b> (60% marks) in the qualifying degree level. <b>Desirable:</b> Master's degree in Civil / Structural / Ocean Engineering or equivalent from a recognized University / Institute.
Job Requirement	i) Coastal processing modeling, planning, coordinating and managing field data collection programs, hydrodynamic modeling related to ocean / coastal engineering ii) Field studies at offshore / coastal regions, laboratory studies, data analysis, conduct numerical studies for fixed/floating structures; iii) oceanographic survey, data collection at coastal/offshore locations, involve in Laboratory studies, site assessment studies/CRZ/GIS.
Pay Scale	Pay Level 10 (Rs.56100 - 177500) and allowances as admissible under 7 <sup>th</sup> CPC
Selection Procedure	Through Test / Interview

### **Screening of Applications for the Post of Scientists**

The preliminary screening of the applications will be based on candidate's qualifying credentials against (i) the essential requirements specified above, (ii) date of birth (inclusive of relaxation of age as applicable), (iii) completeness of the application like providing the details sought, submission of the passport size photograph, and copies of the marks list, academic and experience certificates, signature etc. (iv) essential experience, (v) desirable qualification and experience as specified in the above. The candidate's experience certificates shall be in the **format attached**, clearly specifying whether he/she possess the experience / knowledge / skills / meeting the experience requirements.

### **Criteria for Short-listing of applicants for Interview:**

The prescribed essential qualifications are minimum requirements and the mere possession of the same does not entitle candidates to be called for written test / interview. If the number of applications received in response to advertisement is large, it will not be convenient or possible to call all candidates for interview. Hence, NIOT may restrict the number of candidates to be called for interview to the reasonable limit through Short listing Process by adopting suitable criteria, like cut off marks in the minimum educational qualification, relevant experience in the field (or) by a written test. The criteria for short listing the applications will be set by a Committee constituted to screen the applications depending upon the number of application received.

- a. For the purpose of arriving the percentage of marks, the Institute will follow the yardstick adopted by the University/Institution/Board and take into account the percentage of marks as indicated in the Final Year Marks Statement.
- b. NIOT will not take the responsibility of working out the percentage of marks by adding up the marks secured by the candidates in different subjects/each year of Graduation and instead take into account the percentage of marks / CGPA as indicated in the Final Year Marks Statement.
- c. Where the Merit of the candidate is indicated in the Final Year Marks Statement in CGPA without indicating the corresponding percentage of marks, NIOT will follow the criteria indicated by the University/Institution in the Certificate/Mark statement submitted by the candidate, if any, for arriving at the corresponding percentage. In all other cases, NIOT will apply the conversion formula of CGPA (as indicated in the Final Year Marks Statement) multiplied by (x) 9.5.

The written test will be of qualifying nature.

The final selection of the candidate will be based on the candidate's performance in the interview. No correspondence will be entertained with candidates who are not called for interview/selected for appointment.

Post code	TA-Electrician/Instrumentation-05-2020
Name of the post	<b>Technician – Grade – A (Electrician / Instrumentation)</b>
Number of post	01 (One) – <b>Reserved for `ST`</b>
Age Limit	Not exceeding 30 years (25+ 5 years for ST).
Qualification	<p><b>Essential:</b></p> <p>i) 10<sup>th</sup> Class Pass (Secondary / Metric) of a recognized Board and ITI course in the trade of Electrician/Instrumentation approved by National Council for Vocational Training or equivalent from recognized Institutions.</p> <p>ii) Basic knowledge of computer.</p> <p><b>Desirable :</b></p> <p>Experience of two years in the relevant field.</p>
Job Requirement	<p>i) Assembly, integration and testing of medium voltage Electrical systems viz. motors, drives, transformers, switch gear etc. for subsea and surface applications</p> <p>ii) Development/ drafting Electrical CAD-circuit drawings.</p> <p>iii) Operation and maintenance and inspection of plant equipments, scientific equipments for survey related works onboard, navigation and communication equipments on board</p> <p>iv) Supervision of Electrical construction and maintenance works, ensuring quality and safety at work place, recording measurements and bill preparation, co-ordination with contractors, Maintenance of Gensets, Transformers and MV switch gear</p> <p>v) Field testing of the systems/ equipments developed by NIOT onboard designated ship/ platform at sea.</p>
Pay Scale	Pay Level 02 (Rs.19900 - 63200) and allowances as admissible under 7 <sup>th</sup> CPC
Selection Procedure	Through Trade Test / Written Test and Skill Test

### **Screening of Applications for the Post of Technician Grade - A**

The preliminary screening of the applications will be based on candidate's qualifying credentials against (i) the essential requirements specified above, (ii) date of birth (inclusive of relaxation of age as applicable), (iii) completeness of the application like providing the details sought, submission of the passport size photograph, and copies of the marks list, academic and experience certificates, signature etc. (iv) essential experience, (v) desirable qualification and experience as specified in the above. The candidate's experience certificates should be in the format attached clearly specifying whether they possess the experience / knowledge / skills / requested in the essential / desirable experience requirements.

### **Criteria for Short-listing of applicants for Test**

- a. The prescribed essential qualifications are minimum requirements and the mere possession of the same does not entitle candidates to be called for Test. If the number of application, received in response to advertisement is large, it will not be convenient or possible to call all candidates for Test. Hence, the Institute may restrict the number of candidates to be called for Test to the reasonable limit through Short listing Process by adopting suitable criteria, like percentage of marks in Essential Qualifications as indicated by them in their application.
- b. In such case, **Candidates will be shortlisted roughly in the ratio of 1:50**, subject to availability of sufficient number of eligible candidates. Candidates will be shortlisted by applying suitable cut-off in the percentage of marks, in multiples of five. The number of candidates shortlisted may be slightly more or less due to the criteria of applying cut off in multiples of five.

- c. For the purpose of short listing of candidates for Test, the Institute will follow the yardstick adopted by the Institution/Board and take into account the percentage of marks as indicated in the Final Year Marks Statement.
- d. NIOT will not take the responsibility of working out the percentage of marks by adding up the marks secured by the candidates in different subjects/each year of the course and instead take into account the percentage of marks / CGPA as indicated in the Final Year Marks Statement.
- e. Where the Merit of the candidate is indicated in the Final Year Marks Statement in CGPA without indicating the corresponding percentage of marks, NIOT will follow the criteria indicated by the University/Institution in the Certificate, if any, for arriving at the corresponding percentage. In all other cases, NIOT will apply the conversion formula of CGPA (as indicated in the Final Year Marks Statement) multiplied by (x) 9.5.
- f. The criteria followed in short listing candidates will be final. No appeal or representation will be entertained against such Short listing criteria. The final selection of the candidate will be based on the candidate's performance in the Trade Test/Written Test. who qualified in the Skill test.

No correspondence will be entertained with candidates who are not called for Test.

**General Instructions and Procedure for submitting application for Posts through Direct Recruitment:**

The candidates are requested to note the following:

1. Candidate must be a citizen of India.
2. The application form is available online on NIOT website <http://www.niot.res.in/index.php/recruitment>. The candidate has to fill the application online and upload recent passport size photograph (to enable issue of admit card for appearing test) **latest by 07.09.2020 upto 5.30 p.m.** Upon submission, an online Registration Number will be provided by the system.
3. After allotment of Registration Number, the candidate has to take print out of the application and send the same duly signed along with **self-attested copies of the following certificates** to reach **the Director, National Institute of Ocean Technology, Velachery – Tambaram Main Road, Pallikaranai, Chennai – 600100**, India within 07 days (15 days for those in Assam, Meghalaya, Arunachal Pradesh, Mizoram, Manipur, Nagaland, Tripura, Sikkim, Ladakh Division of Jammu and Kashmir State Lahaul and Spiti District and Pangri Sub-division of Chamba District of Himachal Pradesh, Andaman and Nicobar Islands and the Union Territory of Lakshadweep) from the date of closing of online submission.
  - (a) Educational Qualification Certificates from 10<sup>th</sup> Standard onwards.
  - (b) Mark List & Degree Certificate
  - (c) Experience certificates
  - (d) Community Certificate in the prescribed format issued by the Government of India (in respect of candidates seeking Age relaxation)
  - (e) Certificate in prescribed format (in respect of candidates seeking relaxation for Central Government Employees)
  - (f) Certificate in prescribed format (in respect of candidates seeking relaxation as Ex-servicemen)
  - (g) Copies of Publications/Reprints of the Journal

While attaching the above items please write “Enclosure Sl. No. .... ” as mentioned in the application.

4. Request for change/correction in the Application Form shall not be entertained under any circumstance.
5. Late/incomplete applications, Online applications without hardcopy or vice versa will be rejected.
6. Paste a recent passport size photograph in the space provided for at the right top portion on the first page in the hard copy of the application. The application form without photograph/signature or with Blurred photograph/signature or incomplete in any manner will summarily be rejected
7. The Crucial Date for determining the possession of ‘**AGE AND ESSENTIAL QUALIFICATION (EQs)/EXPERIENCE**’ will be the closing date for filling up Registration Part/Application part of the application Provided that
  - (a) Upper age relaxable for Govt. Servants in accordance with the instructions or orders issued by the Central Govt. from time to time
  - (b) The upper age limit in respect of the Ex-service men, Physically challenged and other special categories of persons shall be relaxable in accordance with the orders issued by the Central Govt. from time to time in this regard.
8. The Advertisement No., Post No. and Post Name should be clearly superscribed on the envelope.

9. Women candidates fulfilling the requirements are encouraged to apply for the post.
10. Candidates who are in Government/ autonomous Institutions and PSU should forward their applications only through proper channel.
11. No TA/DA will be paid towards attending the Test/Interview. Outstation SC/ST candidates called for Interview/Skill test will be reimbursed to and fro sleeper class rail fare by the shortest route from the place of residence (as per application) or actual starting place whichever is less on production of travel (Bus / rail ticket).
12. The candidates selected are liable to work anywhere in India in any of the Projects of NIOT.
13. NIOT cannot take any responsibility for transit and other delays.
14. The number of posts mentioned in the advertisement may vary depending upon the requirements. NIOT reserves the right not to fill up the post without assigning any reasons what so ever.
15. Canvassing in any form will be treated as disqualification.
16. Any unsolicited communication regarding this advertisement is strictly prohibited.
17. The decision of NIOT in all matters relating to eligibility, acceptance or rejection the application shall be final and no enquiry or correspondence will be entertained in this connection from any individual or his/her agency.
18. The call letter for Interview will be communicated through the registered email.

LAST DATE FOR ONLINE APPLICATIONS	:	07.09.2020
LAST DATE FOR RECEIPT OF Non-remote localities	:	14.09.2020
Hard Copy of APPLICATIONS - Remote localities	:	21.09.2020