

EARTH SYSTEM SCIENCES ORGANISATION



NATIONAL INSTITUTE OF OCEAN TECHNOLOGY
(An Autonomous society under Ministry of Earth Sciences, Govt. of India)
NIOT Campus, Velachery-Tambaram Main Road, Pallikaranai, Chennai-600 100
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ADVERTISEMENT No. NIOT/E&P/10(PROJECT)/2014

National Institute of Ocean Technology (NIOT), Chennai, a technical arm of the Ministry of Earth Sciences, Govt. of India, is functioning with the broad objective of promoting technology development in activities related to Ocean Engineering and Ocean Resource utilization. The Institute has taken up various research projects in the area of *Ocean Energy and Fresh Water, Offshore Structure, Deep Sea Technologies and Ocean Mining, Coastal and Environmental Engineering, Ocean Acoustics, Ocean Observation Systems, Submersibles and Gas Hydrates, Marine Sensors and Systems, Ocean Electronics and Marine Biotechnology for Islands*. In order to carry out the research and development activities of the projects, the Institute is looking for Project Scientists, Research Fellows and Project Administrative staff on contract basis with a consolidated salary. Applications are invited from the interested and eligible Indian nationals for the following posts.

The candidates should apply on-line and forward a hard copy duly signed by post along with Registration No. (Obtained by online submission) enclosing the requisite copies of certificates.

Qualification in the relevant discipline and Job requirement in one or more of the areas as mentioned against each post are required.

I. Name of the Post	Project Scientist - II (5 Posts)
Salary	Pay scale Rs.15,600-39,100/- + Grade Pay Rs.6,600/-
Age Limit	Below 40 years

Post Code	PS201-MECH
No. of Post(s) - E&FW-2	2 (Two)
Discipline	Mechanical
Eligibility Criteria	Essential : Bachelor's degree in Mechanical / Production Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Master's degree in Mechanical / Production Engineering from a recognized university or equivalent.
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	i) Design and analysis of thermal / mechanical systems, rotating machinery, assembly and integration of systems, computational fluid dynamics.

Post Code	PS202-CVL
No. of Post(s)_{-OSS-2}	2 (Two)
Discipline	Civil / Structural Engineering
Eligibility Criteria	<p>Essential : Bachelor's degree in Civil / Structural Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable : Master's degree in Civil / Structural/Geotechnical from a recognized university or equivalent.</p>
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	<ul style="list-style-type: none"> i) Coastal processes modelling, planning, coordinating and managing field data collection programs, design of structures, seabed engineering investigations, land survey, hydrodynamic modelling related to ocean/coastal engineering. ii) Co-ordination, analysis, design and execution of Civil / Structural works for island based desalination plants, Analysis of the offshore components such as moorings, fixed/floating structures, numerical modeling of coastal/oceanographic processes at structures, analysis and design of submarine pipeline, material studies for desalination and offshore structures.

Post Code	PS203-OPO
No. of Post(s)_{-OSS-1}	1 (One)
Discipline	Oceanography / Physical Oceanography / Physics
Eligibility Criteria	<p>Essential: Masters in Oceanography / Physical Oceanography/ Ocean Technology/Physics/Modelling or its equivalent from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable : Doctorate in the relevant field.</p>
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	<ul style="list-style-type: none"> i) Coastal processes modelling, planning, coordinating and managing field data collection programs, design of structures, seabed engineering investigations, land survey, hydrodynamic modelling related to ocean/coastal engineering.

II. Name of the Post	Project Scientist - I (20 Posts)
Salary	Pay scale Rs.15,600-39,100/- + Grade Pay Rs.5,400/-
Age Limit	Below 35 years

Post Code	PS101-MECH
No. of Post(s) <small>-EFW-1, S&GH-1, OE-1</small>	3 (Three)
Discipline	Mechanical
Eligibility Criteria	<p>Essential: Bachelor's degree in Mechanical / Production Engineering/Naval Architecture or equivalent from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable: Master's degree in Mechanical / Production Engineering from a recognized university or equivalent.</p>
Job Requirement	<p>i) Design and analysis of thermal / mechanical systems, rotating machinery, assembly and integration of systems, computational fluid dynamics.</p> <p>ii) Machine Design (Dynamics & Analysis / ADAMS / related software)</p> <p>iii) Fluid Mechanics & Thermal Analysis (CFD-FLUENT / CFX/ related software).</p> <p>iv) Design of mechanical sub systems, fabrication/assembly/ integration/testing in the lab/sea. Field survey/deployment/ retrieval operations.</p> <p>v) Design and fabrication of underwater vehicles/drilling systems/ mechanical casings / structures / experience in underwater mechanical system design, analysis and field trials / design of advanced sensors for various underwater applications / experience in softwares like Autocad, ATILA, MEMS, ANSYS, Solidworks and PRO-E</p>

Post Code	PS102-CVL
No. of Post(s) <small>-OSS-1, CEE-2, E&M-1</small>	4 (Four)
Discipline	Civil / Structural Engineering
Eligibility Criteria	<p>Essential: Bachelor's degree in Civil/Structural Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable: Master's degree in Civil/Geotechnical/Structural Engineering from a recognized university or equivalent.</p>
Job Requirement	<p>i) Co-ordination, analysis, design and execution of Civil / Structural works for island based desalination plants, Analysis of the offshore components such as moorings, fixed/floating structures, numerical modeling of coastal/oceanographic processes at structures, analysis and design of submarine pipeline, material studies for desalination and offshore structures.</p> <p>ii) Planning & Project monitoring, design of RCC structures and foundation.</p> <p>iii) Preparation of estimates & construction drawings, site supervision, writing of M-Book, interior design, building maintenance.</p>

Post Code	PS103-EEE
No. of Post(s) -S&GH-1, MSS-1, CEE-1 & VMC-2	5 (Five)
Discipline	Electrical & Electronics
Eligibility Criteria	<p>Essential: Bachelor's degree in Electrical & Electronics Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable: Master's degree in Electrical & Electronics Engineering from a recognized university or equivalent.</p>
Job Requirement	<p>i) Electrical/electronics component design, testing, integration and field trials / design and development of electrical motors and transformers / experience in electrical circuit design and testing.</p> <p>ii) Seabed engineering investigations, land survey, operation and maintenance of Coastal & Oceanographic equipments.</p> <p>iii) Acoustic signal processing and Embedded electronics system design & software development using C/C++</p> <p>iv) Microcontroller designing, programming languages C, C++, Visual basic.</p> <p>v) To carry-out regular ship board inspection on, maintenance of various electrical systems onboard.</p> <p>vi) Trouble-shooting and providing innovative solutions to improve the operations of vessels and scientific equipments.</p> <p>Vii) Supervision of dry-dock and afloat repairs of Ships.</p> <p>viii) To sail onboard Ships and liaise scientists onboard for scientific operations whenever required.</p> <p>ix) Electronics system design, testing, integration and field trials / knowledge in underwater acoustic signal processing / communication systems / programming with softwares like MATLAB, C, C++, VC++, Orcad, LABVIEW, Algorithm development.</p> <p>x) Programming and operation of PLC, DCS, SCADA.</p>

Post Code	PS104-ECE
No. of Post(s) -OE-1, S&GH-1	2 (Two)
Discipline	Electronics & Communication
Eligibility Criteria	<p>Essential: Bachelor's degree in Electronics & Communication Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable: Master's degree in Electronics & Communication Engineering from a recognized university or equivalent.</p>
Job Requirement	<p>i) Acoustic signal processing and Embedded electronics system design & software development using C/C++</p> <p>ii) Microcontroller designing, programming languages C, C++, Visual basic.</p> <p>ii) Embedded system designing, Digital signal processing and programming with MATLAB.</p>

Post Code	PS105-GEO
No. of Post(s) -S&GH-1	1 (One)
Discipline	Marine Geology
Eligibility Criteria	<p>Essential : Master's degree in Geology / Applied Geology / Marine Geology / Geo Exploration / Petroleum Geology or equivalent from a recognized university /institution with at least first class not less than 60% marks..</p> <p>Desirable: Ph.D. in Marine Geology with specialization in Sedimentology/ Sediment Dynamics / Geoexploration.</p>
Job Requirement	Geological field observations, Deep Sea Mineral Exploration and coastal processes.

Post Code	PS106-OPO
No. of Post(s) -VMC-2, CEE-1 & OSS-1	4 (Four)
Discipline	Oceanography / Physical Oceanography / Physics
Eligibility Criteria	<p>Essential : Master's Degree in Oceanography / Physical Oceanography / Physics/Ocean Technology/Modelling or equivalent from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable : Doctorate in the relevant field.</p>
Job Requirement	<ul style="list-style-type: none"> i) Oceanographic field observations, data analysis, hydrodynamic modelling related to coastal engineering ii) Installation, commissioning & testing of survey equipments. iii) Acquisition and processing the Singlebeam/Multibeam data. iv) Sailing on Ships. v) Underwater acoustic signal processing, data collections and analysis. 2D/3D Image creation using algorithm. vi) Coastal processes modelling, planning, coordinating and managing field data collection programs, design of structures, seabed engineering investigations, land survey, hydrodynamic modelling related to ocean/coastal engineering.

Post Code	PS107-LS
No. of Post(s) -MBT-1	1 (One)
Discipline	Life Sciences
Eligibility Criteria	<p>Essential : Master's Degree in Life/Chemical Science from a recognized university/Institute with at least first class not less than 60% marks.</p> <p>Desirable : Doctorate in the relevant field.</p>

Job Requirement	Collection, isolation, identification, maintenance, mass culture and biochemical analysis of marine micro algae / macro algae / microbes. Physico-chemical and biological analysis of seawater and sediment. Extraction, isolation of bioactive and anti microbial compounds from marine organisms.
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III. Name of the Post Project Hindi Translator (1 Post)

Salary Rs. 34,750/-

Age Limit Below 30 years (Relaxable to retired Govt. employees / Ex-servicemen)

Post Code	PHT-001
No. of Post(s)	1 (One)
Eligibility Criteria	<p>Essential : -</p> <p>i) Master's degree in Hindi with English as a compulsory or elective subject or as the medium of examination at the degree level. (OR) Master's degree in English with Hindi as a compulsory or elective subject or as the medium of examination at the degree level. (OR) Master's degree in any subject with Hindi medium and English as a compulsory or elective subject or as the medium of a examination at the degree level (OR) Master's degree in any subject with English medium and Hindi as a compulsory or elective subject or as the medium of a examination at the degree level.</p> <p>AND</p> <p>Recognized Diploma or Certificate course in translation from Hindi to English & vice versa or two years experience of translation work from Hindi to English and vice versa in Central or State Government Office, including Government of India undertaking.</p>
Job Requirement	<ul style="list-style-type: none"> • Getting the Institute's publications translated into Hindi as per OL Act • Getting the required documents translated into English and Hindi Languages including the papers to be placed on the tables of Lok Sabha and Rajya Sabha • Attending Hindi meeting organized by TOLIC and other C.G. organizations for effective implementation of OL • Ensure proper compliance of the provisions of OL Act and orders pertaining to Hindi Teaching Scheme and OL Policy at the Institute as well as regional centres. • Submitting all the necessary documents in English & Hindi Languages

IV. Name of the Post Project Executive (4 Posts)

Salary Rs. 29,800/-

Age Limit Below 33 years (Relaxable to retired Govt. employees / Ex-servicemen)

Post Code	PE-01
No. of Post(s)	04 (Four)

Eligibility Criteria	<p>Essential : -</p> <p>i) A bachelor's degree from a recognized University, basic knowledge of computer.</p> <p>ii) Minimum 5 years experience in Govt./PSU/Autonomous Bodies/ in the relevant area in Junior Executive level.</p> <p>Desirable :-</p> <p>i) Post Graduation</p> <p>ii) Experience in Govt. /Semi Govt. /Public Sector Undertakings/Autonomous bodies and other reputed organizations in Administration, imports, Stores & purchases, Finance & Accounts, etc.</p>
Job Requirement	Inventory Management, Stock & Stores, Preparation of Tender documents, Contract Management, Imports, Letters of credit, Procurements, Maintenance of books of account, TDS, Service Tax, VAT, Tax Returns, On line accounting, Data retrieval and management, assistance in drawing up final accounts.

V. Name of the Post Senior Research Fellow - SRF (5 Posts)

Salary Rs.18,000/- + HRA

Post Code	SRF01-LS
No. of Post(s)	05 (Five)
Discipline	Life / Chemical Sciences
Eligibility Criteria	Essential : - Post Graduate degree in Life Sciences / Chemistry and NET qualified or equivalent with minimum 60 % marks with research experience as evidenced from fellowship/associateship or traineeship and published papers in standard referred journal.
Job Requirement	Collection, isolation, identification, maintenance, mass culture and biochemical analysis of marine micro algae / macro algae / microbes. Physico-chemical and biological analysis of seawater and sediment. Extraction, isolation of bioactive and anti microbial compounds from marine organisms. Biochemical / molecular analysis and/or characterization of bioactive compounds extracted from marine organisms.

VI. Name of the Post Junior Research Fellow - JRF (2 Posts)

Salary Rs.16,000/- + HRA

Post Code	JRF01-LS
No. of Post(s)	2 (Two)
Discipline	Life Science
Eligibility Criteria	Essential : - Post Graduate degree in Life Sciences and NET qualified or equivalent.
Job Requirement	Collection, isolation, identification, maintenance, mass culture and biochemical analysis of marine micro algae / macro algae / microbes. Physico-chemical and biological analysis of seawater and sediment. Extraction, isolation of bioactive and anti microbial compounds from marine

General Conditions:**The candidates are requested to note the following:**

1. Candidates must be citizens 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 upon submission, applicants will be provided with an online Registration Number. After allotment of Registration Number, the candidate has to take a print out, duly sign and send it to NIOT along with copies of the following certificates to reach by **20.08.2014**. **Online applications must invariably be followed with duly signed hard copy along with relevant enclosures.** Online applications without hardcopy submission will lead to rejection of application. Similarly hard copy applications without online registration will not be considered. The application without the following enclosures shall summarily be rejected.
 - i) Qualification certificates
 - ii) Mark List
 - iii) Experience certificates
 - iv) Caste certificate in the prescribed form issued by the Competent Revenue Authority.
3. Paste a recent passport size colour photograph in the space provided for at the right top portion on the first page of the application.
4. Experience in a discipline / area of work, wherever prescribed, shall be counted after the date of acquiring the minimum prescribed qualifications for that post.
5. The candidates should not have exceeded the maximum age limit specified above as on the last date of receipt of Applications. A maximum relaxation of 5 years in age is applicable to SC/ST and candidates working in Government of India / Autonomous organizations of GOI; 10 years in age is applicable to physically disabled persons and 3 years for OBC candidates.
6. Women candidates fulfilling the requirements are encouraged to apply for the posts.
7. Candidates who are in Government / autonomous Institutions and PSU should forward their applications only through proper channel.
8. NIOT may fix suitable norms for short listing the applications depending upon the vacancies available and the area in which the vacancies exist.
9. Mere possession of the education qualifications and requisite experience will not entitle any right to call for interview or selection.
10. **The Advt. No., Post No., Post Name and Discipline should be clearly indicated on the envelope.**
11. The candidates selected are liable to work anywhere in India and can be posted in any of the projects of NIOT.
12. Attested copies of certificates / testimonials (for age, qualification and experience proof) should be enclosed along with the applications. Enclose list of publications / re-prints etc., if any also with the application. Write ***"Enclosure Sl. No. ____" as mentioned in the application.***

13. The applications received after due date or without enclosures or incomplete applications will be summarily rejected. 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 any post(s) 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 of application shall be final and no enquiry or correspondence will be entertained in this connection from any individual or his/her agency.
18. The engagement is time bound and purely temporary on contract basis for a fixed term.
19. The duration of the engagement would be initially for a period of one year or co-terminus with the project in which he/she is engaged, whichever is earlier.
20. If the candidate wants his/her application to be considered for more than one post, separate application should be submitted for each post.
21. The candidates selected against the post with Life Science qualification are liable to be posted in Andaman & Nicobar / Lakshadweep Islands.
22. The candidates interviewed and found not suitable for the post applied for, may be considered for a lower Post / Scale.
23. Marine / ocean technology related experience will be an added advantage.

Applications should be sent to The Director, National Institute of Ocean Technology, Velachery - Tambaram Main Road, Pallikaranai, Chennai-600100, INDIA so as to reach **on or before the due date, duly superscribing on the envelope "the post name and discipline for which applied"**.

LAST DATE FOR ONLINE APPLICATIONS : **11.08.2014**

LAST DATE FOR RECEIPT OF APPLICATIONS : **20.08.2014**

DIRECTOR