



**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  
Phone : 91-44-6678 3310/6678 3300 Fax : 91-44-6678 3308

**ADVERTISEMENT No. NIOT/E&P/05(PROJECT)/2011**  
**(For Scientific Positions)**

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, Deep Sea Technologies and Ocean Mining, Coastal and Environmental Engineering, Ocean Observation Systems, Submersibles and Gas Hydrates, Marine Sensors and Systems, Ocean Electronics, Offshore Structures / Island Desalination, Ocean Acoustics and Marine Biotechnology for Islands*** in the XI Plan Period, which are likely to be continued in the XII plan. In order to carryout the research and development activities of the projects, the Institute is looking for Project Scientists under various disciplines as detailed in the Institute website (mentioned below) on contract basis with a consolidated salary in the following grades. Applications are invited from the interested and eligible candidates. The candidates should apply on-line and forward a hard copy duly signed by the candidate by Post along with Registration No. of online submission, enclosing the required copies of certificates for consideration.

<b>S. No.</b>	<b>Name of the Post</b>	<b>Salary Range (Rs.) (Consolidated)</b>	<b>No. of Posts(*)</b>
1	Project Scientist – III	47300 – 52600	1
2	Project Scientist – II	45500 – 50500	31
3	Project Scientist – I	43300 - 48100	83

***(\*) No. of posts advertised may vary.***

***The consolidated salary will be fixed anywhere in the salary range given, depending upon the qualifications, experience and suitability of the candidate.***

The duration of the engagement will be for a period of 3 years or co-terminus with the project in which he/she is engaged, whichever is earlier.

For detailed advertisement, please visit NIOT website  
<http://www.niot.res.in/recruit/cv/advertisement.php>

Last Date for Online Applications : **03.02.2012**

Last date for receipt of Hard copy of the Applications : **10.02.2012**

DIRECTOR



**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  
Phone : 91-44-6678 3310/6678 3300 Fax : 91-44-6678 3308

**ADVERTISEMENT No. NIOT/E&P/05(PROJECT)/2011**  
**(For Scientific Positions)**

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, Deep Sea Technologies and Ocean Mining, Coastal and Environmental Engineering, Ocean Observation Systems, Submersibles and Gas Hydrates, Marine Sensors and Systems, Ocean Electronics, Offshore Structures / Island Desalination, Ocean Acoustics and Marine Biotechnology for Islands*** in the XI Plan Period, which are likely to be continued in the XII plan. In order to carry out the research and development activities of the projects, the Institute is looking for Project Scientists under various disciplines as detailed in the Institute website (mentioned below) on contract basis with a consolidated salary in the following grades. Applications are invited from the interested and eligible candidates. The candidates should apply on-line and forward a hard copy duly signed by the candidate by Post along with Registration No. of online submission enclosing the required copies of certificates for consideration. ***The consolidated salary will be fixed anywhere in the salary range given, depending upon the qualifications, experience and suitability of the candidate.***

**I. Name of the Post**    **Project Scientist – III**  
**Salary Range**        **Rs. 47300 – 52600**  
**Age Limit**             **Below 50 years**

<b>Post Code</b>	<b>PS301-MECH</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Mechanical / Marine</b>
Eligibility Criteria	Essential : Bachelor's degree in Mechanical / Marine Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Master's degree in Mechanical / Marine Engineering from a recognized university or equivalent.
Experience	7 years experience in the Marine engineering field with sailing on ships as Marine Engineering officer is preferable.
Job Requirement	Technical operation and technical superintendancy of ships. Procurement regarding the fleet, such as repairs, spares, surveys, dry-docking, etc. Regular ship board inspection on: maintenance of various scientific, navigation and communication equipments onboard. Trouble-shoot and provide innovative solutions to improve the operations of vessels and scientific equipments. Workshop Knowledge. Knowledge on procurement procedures of Govt. of India. Knowledge on Ship's Planning and acquisition of Ships.

**II. Name of the Post**    **Project Scientist – II (31 Posts)**  
**Salary Range**         **Rs. 45500 – 50500**  
**Age Limit**                **Below 40 years**

**Qualification in the relevant discipline and Job requirement in one or more of the following areas as mentioned below under each category are required:**

<b>Post Code</b>	<b>PS201-MECH</b>
<b>No. of Post(s)</b>	<b>9 (Nine)</b>
<b>Discipline</b>	<b>Mechanical</b>
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 preferable. ii) Machine Design & FE Analysis (ANSYS / NASTRAN / related software) iii) Machine Dynamics & Analysis (LS DYNA / ADAMS / related software) iv) Experience in Mechanical system design to suite for different developmental works. Knowledge of CFD / FLUENT / SOLID works. v) Design of mechanical components for offshore structures, design and commissioning of desalination plants in islands, design and deployment of deep sea pipes and offshore installations. Design of Heat Exchangers, condensers optimization using CFD analysis tools like FLUENT and GAMBIT for the projects on Desalination, design of mechanical components for offshore structures.

<b>Post Code</b>	<b>PS202-ELE</b>
<b>No. of Post(s)</b>	<b>3 (Three)</b>
<b>Discipline</b>	<b>Electrical &amp; Electronics</b>
Eligibility Criteria	Essential : Bachelor's degree in Electrical and Electronics Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks.  Desirable : Master's degree in Electrical and Electronics Engineering from a recognized university or equivalent.
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	i) System integration, assembly, testing of electrical machines, transformers, drivers, etc. Interfacing and Panel wiring, Installations of electrical systems on board ships, power devices, system integration and assembly, handling high

	<p>voltage systems, knowledge on remote controlled systems, testing and calibration of electrical machines and power devices, installations of electrical systems on board ships.</p> <p>ii) 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>iii) Coastal processes modelling – Maintenance and development of different types of survey equipment. Planning, coordinating and managing field data collection programs, related to different survey equipments, design of survey planning, seabed engineering investigations, land survey, related to coastal engineering.</p>
--	--

<b>Post Code</b>	<b>PS203-OCE</b>
<b>No. of Post(s)</b>	<b>2 (Two)</b>
<b>Discipline</b>	<b>Oceanography / Physical Oceanography</b>
Eligibility Criteria	<p>Essential : Mater's Degree in Oceanography / Physical Oceanography 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>
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	<p>i. Oceanography/Acoustic data processing &amp; analysis, MATLAB programming, numerical modeling and simulations.</p> <p>ii. Planning, coordinating and managing field data collection programs, related to Oceanographic and coastal engineering, seabed engineering investigations, land survey, hydrodynamic modelling.</p>

<b>Post Code</b>	<b>PS204-ECE</b>
<b>No. of Post(s)</b>	<b>3 (Three)</b>
<b>Discipline</b>	<b>Electronics and Communication / Electronics or Applied Electronics</b>
Eligibility Criteria	<p>Essential : Bachelor's degree in Electronics and Communication / Electronics or M.Sc. Applied Electronics 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 and Communication / Electronics or Applied Electronics Engineering from a recognized university or equivalent.</p>
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	<p>i) Programming with Lab View &amp; simulation software like MATLAB, design of data acquisition system, underwater acoustic signal processing, coordination of field trials and installations of underwater acoustic systems, transducer testing and calibration.</p> <p>ii) Experience in Digital signal processing &amp; embedded system design, programming with MATLAB.</p> <p>iii) Electronic system design, testing, integration and field trials. Embedded technology / applied electronics / Knowledge in underwater communication systems / digital underwater</p>

	<p>acoustic signal processing, algorithm development for imaging / programming with softwares like MATLAB, C, C++, VC++, Orcad.</p> <p>iv) Acquisition and Processing the Multibeam data / Preparing the Charts as per the requirements / Knowledge on operations of Multibeam/Single beam Echo sounder / Sailing experience onboard ships as scientist / understanding of ship operations is preferable.</p>
--	---

<b>Post Code</b>	<b>PS205-CS</b>
<b>No. of Post(s)</b>	<b>3 (Three)</b>
<b>Discipline</b>	<b>Computer Science</b>
Eligibility Criteria	<p>Essential : Master's degree in Computer Science/Information Technology or B.E./B.Tech. in Computer Science/MCA or equivalent from a recognized university /institution with at least first class not less than 60% marks..</p> <p>Desirable : Doctorate/M.Tech. in the relevant field.</p>
Experience	3 years of Experience in the relevant field.
Job Requirement	Overall in charge of data reception centre, co-ordination with scientists on data reception and quality control, supervision of data centre and administrative work related to data centre

<b>Post Code</b>	<b>PS206-CVL</b>
<b>No. of Post(s)</b>	<b>4 (Four)</b>
<b>Discipline</b>	<b>Civil / Structural Engineering</b>
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 Engineering from a recognized university or equivalent.</p>
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	<p>i) Coastal processes modelling – Design of structures and installations - Planning, coordinating and managing field data collection programs, design of structures, seabed engineering investigations, land survey, hydrodynamic modelling related to coastal engineering.</p> <p>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.</p>

<b>Post Code</b>	<b>PS207-HYD</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Hydrographer</b>
Eligibility Criteria	Essential : Bachelor's degree in Civil Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks (OR) Ex Navy

Experience	Surveyor with SR-1 with five years experience / A degree in surveying / AMIS or equivalent. Desirable : Master's degree in Engineering from a recognized university or equivalent.  3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	Planning, coordinating and managing field data collection programs related to Hydrographic, geophysical, geotechnical, seabed engineering investigations, topographic survey etc.

<b>Post Code</b>	<b>PS208-ODAM</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Ocean Data Analysis and Modelling</b>
Eligibility Criteria	Essential : Mater's Degree in Physical Oceanography / Physics / Applied Physics or equivalent from a recognized university/Institute with at least first class not less than 60% marks.  Desirable : Doctorate in the relevant field.
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	Collection and processing of oceanographic data such as waves, tides and currents, numerical modeling of coastal / ocean processes and undertaking field investigations for wave structure interaction studies in islands/mainland.

<b>Post Code</b>	<b>PS209-GEO</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Geology (GIS &amp; Remote Sensing)</b>
Eligibility Criteria	Essential : Mater's Degree in Geology / Geophysics or equivalent from a recognized university/Institute with at least first class not less than 60% marks.  Desirable : Doctorate in the relevant field.
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	Marine and land survey in islands and Mainland for installation of offshore structures, processing of bathymetry, oceanographic data and application of GIS & remote sensing in ocean and coastal processes studies.

<b>Post Code</b>	<b>PS210-MECM</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Mechanical / Marine</b>
Eligibility Criteria	Essential : Bachelor's degree in Mechanical / Marine Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks.  Desirable : Master's degree in Mechanical / Marine Engineering from a recognized university or equivalent.
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field. Sailing experience onboard merchant ships as class 4 MEO is preferable.
Job Requirement	<ul style="list-style-type: none"> <li>Supervision of dry-dock and afloat repairs of Ships</li> </ul>

	<ul style="list-style-type: none"> <li>• Technical management and tasks related to acquisition of research vessels</li> <li>• Regular ship board inspection on: maintenance of various scientific, navigation and communication equipments</li> <li>• Trouble-shooting and providing innovative solutions to improve the operations of vessels and scientific equipments.</li> <li>• Cruise planning / Interaction with ports.</li> <li>• Workshop Knowledge.</li> </ul>
--	--

<b>Post Code</b>	<b>PS211-LS</b>
<b>No. of Post(s)</b>	<b>3 (Three)</b>
<b>Discipline</b>	<b>Life Sciences</b>
Eligibility Criteria	Essential : Master's Degree in Life Science/ Marine Biology from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Experience	3 years experience in Research and Development, Survey/Planning in the relevant field.
Job Requirement	Culture of marine organisms in open sea cages / design, fabrication and deployment of fish aggregating devices / emplacement of artificial reef in coastal areas/ organizing/participation in scientific cruises on board research vessels.

**III. Name of the Post    Project Scientist – I (83 Posts)**  
**Salary Range            Rs. 43300 - 48100**  
**Age Limit                 Below 35 years**

***Qualification in the relevant discipline and Job requirement in one or more of the following areas as mentioned below under each category are required:***

<b>Post Code</b>	<b>PS101-MECH</b>
<b>No. of Post(s)</b>	<b>16 (Sixteen)</b>
<b>Discipline</b>	<b>Mechanical</b>
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.
Job Requirement	i) Design and analysis of thermal / mechanical systems, rotating machinery, assembly and integration of systems, computational fluid dynamics preferable. ii) Machine Design (Dynamics & Analysis / ADAMS / related software) iii) Fluid Mechanics & Thermal Analysis (CFD-FLUENT / CFX/ related software) iv) Design of mechanical sub systems, fabrication/assembly/integration/testing in the lab/sea. Field survey/deployment/retrieval operations.

	<p>v) knowledge on Design of Machine elements, Finite elements analysis, Mooring Design &amp; Analysis with scope of work as Design and analysis of mooring system for buoys, design and fabrication of components and deployment of buoys on board the ship</p> <p>vi) Experience in design and fabrication of 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 and PRO-E</p> <p>vii) Design of mechanical components for offshore structures, design and commissioning of desalination plants in islands, design and deployment of deep sea pipes and offshore installations. Design of Heat Exchangers, condensers optimization using CFD analysis tools like FLUENT and GAMBIT for the projects on Desalination, design of mechanical components for offshore structures.</p> <p>viii) Technical management and tasks related to acquisition of research vessels / Technical management and tasks related to ship and Equipment / Regular ship board inspection on: maintenance of various scientific, navigation and communication equipments onboard: Trouble-shooting and providing innovative solutions to improve the operations of vessels and scientific equipments; Cruise planning / Interaction with ports / Knowledge on Installation of Multibeam/Single beam Echosounder / Sailing experience on Ships as scientist is preferred.</p>
--	--

<b>Post Code</b>	<b>PS102-CVL</b>
<b>No. of Post(s)</b>	<b>10 (Ten)</b>
<b>Discipline</b>	<b>Civil</b>
Eligibility Criteria	<p>Essential: Bachelor's degree in Civil 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 Engineering from a recognized university or equivalent.</p>
Job Requirement	<p>i) Structural analysis and design, knowledge of codes like STAADPRO, ANSYS and other finite element software preferred. Working knowledge of RCC &amp; steel codes desirable.</p> <p>ii) Design of structures, seabed engineering investigations, land survey, hydrodynamic modelling related to coastal engineering</p> <p>iii) 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>

<b>Post Code</b>	<b>PS103-CHEM</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Chemical</b>
Eligibility Criteria	<p>Essential : Master's degree in chemistry or B.E./B.Tech. Chemical Engineering or equivalent from a recognized university /institution with at least first class not less</p>

	than 60% marks.. Desirable : Doctorate/M.Tech. in the relevant field
Job Requirement	Knowledge of process control and computational fluid dynamics preferred

<b>Post Code</b>	<b>PS104-INSC</b>
<b>No. of Post(s)</b>	<b>2 (Two)</b>
<b>Discipline</b>	<b>Electronics &amp; Instrumentation</b>
Eligibility Criteria	Essential: Bachelor's degree in Electronics & Instrumentation Engineering or equivalent from a recognized university/Institute with at least first class not less than 60% marks. Desirable: Master's degree in Electronics & Instrumentation Engineering from a recognized university or equivalent.
Job Requirement	<ol style="list-style-type: none"> <li>i. Experience in component development &amp; testing, design and development of instruments, sensors, data acquisition systems, knowledge in software like Lab view, C, C++, VB, VC++, networking fiber optic communications.</li> <li>ii. Acquisition and Processing the Single beam/ Multibeam data / Collection sediment samples / Sailing experience on Ships as scientist is preferred.</li> </ol>

<b>Post Code</b>	<b>PS105-ECE</b>
<b>No. of Post(s)</b>	<b>13 (Thirteen)</b>
<b>Discipline</b>	<b>Electronics &amp; Communication</b>
Eligibility Criteria	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. Desirable: Master's degree in Electronics & Communication Engineering from a recognized university or equivalent.
Job Requirement	<ol style="list-style-type: none"> <li>i) Data Acquisition &amp; Control System (DACS) design and Programming using Lab VIEW &amp; DasyLab Software.</li> <li>ii) Acoustic signal processing and Embedded electronics system design &amp; software development using C/C++</li> <li>iii) Experience in microcontroller design, programming languages C, C++, Visual basic.</li> <li>iv) Programming with Lab View &amp; MATLAB, underwater acoustic signal processing, assembly/integration of electronics subsystems, deployment/retrieval of the system.</li> <li>v) Knowledge of Embedded system design, Digital signal processing and programming with MATLAB.</li> <li>vi) Sensor calibration Individual &amp; Integrated Testing of Buoy system and operation and maintenance of buoys during cruise. Participation in cruise on board the ship</li> <li>vii) 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.</li> <li>viii) Design and fabrication of electroflocculators for biological applications, design of high pressure low temperature serial dilution and fermentor system and automated temperature</li> </ol>

	<p>recording system in a biofouling monitor.</p> <p>ix) Testing, Commissioning and Operation of Desalination Plants in Islands.</p>
<b>Post Code</b>	<b>PS106-EEE</b>
<b>No. of Post(s)</b>	<b>8 (Eight)</b>
<b>Discipline</b>	<b>Electrical &amp; Electronics</b>
Eligibility Criteria	<p>Essential: Bachelor's degree in Electrical &amp; 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 &amp; Electronics Engineering from a recognized university or equivalent.</p>
Job Requirement	<p>i) Power Electronics, AC/DC drives, Modelling and Analysis of AC/DC motors using FEA software.</p> <p>ii) 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>iii) Design of instrumentation and support service, seabed engineering investigations, land survey, hydrodynamic modelling related to coastal engineering.</p> <p>iv) Design and commissioning electrical / instrumentation systems for desalination plants in islands and R &amp; D activities related electrical / instrumentation systems for development of offshore structural components.</p>
<b>Post Code</b>	<b>PS107-PET</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Petroleum</b>
Eligibility Criteria	<p>Essential: Bachelor's degree in Petroleum 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 Petroleum Engineering from a recognized university or equivalent.</p>
Job Requirement	Experience in petroleum engineering with Bachelor's degree in petroleum / chemical / mechanical engineering
<b>Post Code</b>	<b>PS108-GEO</b>
<b>No. of Post(s)</b>	<b>2 (Two)</b>
<b>Discipline</b>	<b>Geology</b>
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, coastal engineering geology and coastal processes.

<b>Post Code</b>	<b>PS109-OPO</b>
<b>No. of Post(s)</b>	<b>8 (Eight)</b>
<b>Discipline</b>	<b>Oceanography / Physics Oceanography / Physics</b>
Eligibility Criteria	Essential : Master's Degree in Oceanography / Physical Oceanography / Physics or equivalent from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Job Requirement	i) Data processing, analysis and modeling, acoustic signal processing and communication. ii) Oceanographic and acoustic data processing, Sound propagation modeling. iii) Oceanographic field observations, hydrodynamic modelling related to coastal engineering iv) Data quality control, data analysis and interpretation of moored buoy data, preparation of daily buoy data report

<b>Post Code</b>	<b>PS110-BTE</b>
<b>No. of Post(s)</b>	<b>1</b>
<b>Discipline</b>	<b>Bio-technology</b>
Eligibility Criteria	Essential : Master's Degree in Bio technology / Bio Chemistry or equivalent from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Job Requirement	Experience in gene based remote bio sensor using electro chemical methods and optical fiber hybridization for microbial population. Io-electronics and underwater applications.

<b>Post Code</b>	<b>PS111-LS</b>
<b>No. of Post(s)</b>	<b>14</b>
<b>Discipline</b>	<b>Life Sciences</b>
Eligibility Criteria	Essential : Master's Degree in Life Science/ Marine Biology from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Job Requirement	i) Biological and chemical Oceanographic field observations, hydrodynamic modelling related to coastal and estuarine engineering. ii) Collection, isolation, identification, maintenance, mass culture and biochemical analysis of marine micro algae / macro algae. Collection, isolation, identification, maintenance, mass culture and biochemical analysis of marine 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. EIA studies related to coastal and marine environment. Culture of marine organisms in open sea cages. Organizing / participation in scientific cruises on board research vessels.

<b>Post Code</b>	<b>PS112-GEOP</b>
------------------	-------------------

<b>No. of Post(s)</b>	<b>2 (Two)</b>
<b>Discipline</b>	<b>Geophysicist</b>
Eligibility Criteria	Essential : Master's Degree in Geophysics from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Job Requirement	Geophysical field observations, Multi beam data collection, related to coastal engineering.

<b>Post Code</b>	<b>PS113-GIS</b>
<b>No. of Post(s)</b>	<b>2 (Two)</b>
<b>Discipline</b>	<b>GIS - Remote Sensing</b>
Eligibility Criteria	Essential : Master's Degree in Geographic Information System / Remote Sensing from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Job Requirement	Satellite image processing related to Oceanographic, hydrographic, CRZ mapping etc.

<b>Post Code</b>	<b>PS114-ORG</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Organic Chemistry</b>
Eligibility Criteria	Essential : Master's Degree in Organic Chemistry from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Job Requirement	Extraction and purification of bioactive molecules from the marine organisms using chromatographic techniques like Thin Layer, Column, Adsorption, Size exclusion, Gel permeation and High pressure Liquid Chromatographic techniques, Structure determination of the purified compounds using sophisticated analytical/spectroscopic techniques, Handling knowledge of UV/VIS spectrophotometer, FT-IR, GC, GC-MS, HPLC, LC-MS/MS and capability of interpreting of NMR spectra and Mass Spectra.

<b>Post Code</b>	<b>PS115-BIO</b>
<b>No. of Post(s)</b>	<b>1 (One)</b>
<b>Discipline</b>	<b>Bioinformatics</b>
Eligibility Criteria	Essential : B.E. / B.Tech. (OR) Master's Degree in Bioinformatics /Computation Biology from a recognized university/Institute with at least first class not less than 60% marks. Desirable : Doctorate in the relevant field.
Job Requirement	Marine Bioinformatics, development, maintenance of database for various in-house requirements and development of tools and techniques to utilize biological information using <i>in-silico</i> process

	for modeling and validation.
--	------------------------------

<b>Post Code</b>	<b>PS116-CS</b>
<b>No. of Post(s)</b>	<b>1</b>
<b>Discipline</b>	<b>Computer Science</b>
Eligibility Criteria	<p>Essential : Master's degree in Computer Science/Information Technology or B.E./B.Tech. in Computer Science/MCA or equivalent from a recognized university /institution with at least first class not less than 60% marks..</p> <p>Desirable : Doctorate/M.Tech. in the relevant field.</p>
Job Requirement	<ul style="list-style-type: none"> <li>• Data base management.</li> <li>• GIS applications development.</li> <li>• Preparing the Charts as per the requirements.</li> <li>• Sailing experience on Ships as scientist is preferred</li> <li>• Knowledge on multibeam data processing is essential.</li> </ul>

## **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/recruit.cv/advertisement.php>. 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 along with copies of the following certificates by 10.02.2012. Online applications must invariably be followed with hard copy along with 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.
  - a. Qualification certificates
  - b. Mark List
  - c. Experience certificates
  - d. 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. **Relaxation will be given only on production of original caste certificate.**
6. Women candidates fulfilling the requirements are encouraged to apply for the posts.
7. Candidates working in NIOT are entitled for age relaxation to the extent of the number of years of service rendered in NIOT.
8. Candidates who are in Government / autonomous Institutions and PSU should forward their applications only through proper channel.
9. NIOT may fix suitable norms for short listing the applications depending upon the vacancies available in the area in which the vacancies exist.
10. Mere possession of the education qualifications and requisite experience will not entitle any right to call for interview or selection.
11. **The Advt. No., Post Code No., Post Name and Discipline should be clearly indicated on the envelope.**
12. Outstation candidates called for the interview will be reimbursed to and fro Second Class Sleeper Train fare by the shortest route from the place of duty / residence and back on production of Rail tickets.
13. The candidates selected are liable to work anywhere in India and can be posted in any of the projects in NIOT.

14. Attested copies of certificates / testimonials (for age, qualification and experience proof) should be enclosed along with the applications. Enclose publications / reprints etc., if any also with the application. Write **“Enclosure Sl. No. \_\_\_\_\_” as mentioned in the application.**
15. 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.
16. 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.
17. Canvassing in any form will be treated as disqualification.
18. Any unsolicited communication regarding this advertisement is strictly prohibited.
19. 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.
20. The engagement is time bound and purely temporary on contract basis and on consolidated salary, against the XII Five Year Plan project sanctions. The duration of the engagement would be initially for a period of 1 year and extendable to 3 years or coterminous with the project, whichever is earlier, subjected to annual performance review.
21. **The consolidated salary will be fixed anywhere in the salary range given, depending upon the experience and suitability of the candidate based on the recommendations of the Selection Committee.**
22. If the candidate wants his/her application to be considered for more than one post, separate application should be submitted for each post.
23. The candidates selected against the post with Life Science qualification are liable to be posted in Andaman & Nicobar / Lakshadweep Islands.
24. The minimum qualifications / experience can be relaxed for candidates with exceptional and deserving cases.
25. The candidates interviewed and found not suitable for the post applied for, may be considered for a lower Post / Scale.
26. For Posts at Sl. No. 1 to 5, 9, 13 & 14, marine / ocean technology related experience will be an added advantage.
27. Additional weightage will be given to Candidates with GATE and other higher academic qualification.

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 : **03.02.2012**  
LAST DATE FOR RECEIPT OF HARD COPY OF APPLICATIONS : **10.02.2012**