



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/06 (PROJECT)/2011
(For Technical & Research 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 technical personnel and Research staff to engage in 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.

S. No.	Name of the Post	Salary Range (Rs.) (Consolidated)	No. of Posts(*)
1	Project Scientific Assistant	27300 – 30400	63
2	Project Technicians	14200 - 15800	37
3	Research Associate	22,000/- + HRA	2
4	SRF	18,000/- + HRA	16
5	JRF	16,000/- + HRA	8

Last Date for Online Applications : **18.01.2012**

Last date for receipt of Hard Copy of Applications : **25.01.2012**

(*) 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>

DIRECTOR



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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 Scientific Assistant (63 Posts)**
Salary Range Rs. 27300 – 30400
Age Limit Below 28 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:

Post Code	PSA01-MECH
No. of Post(s)	16 (Sixteen)
Discipline	Mechanical
Eligibility Criteria	<i>Essential</i> : Diploma in Mechanical Engineering or equivalent from a recognized Board / Institutions or equivalent with at least first class (60%) with basic knowledge of computer [OR] PG Diploma in Port Development, Management with GMDSS certificate.
Job Requirement	i) Fabrication & assembly, deployment of marine / mechanical equipment, Integration testing, knowledge of AUTOCAD, CATIA, AUTODESK – Inventor, ANSYS, PRO-E, offshore handling, operation of lathe, drilling machine,

	<p>welding, ship board systems.</p> <p>ii) Solid Modeling & Drafting (Auto CAD)</p> <p>iii) Hydraulics</p> <p>iv) Assembly & Quality Control</p> <p>v) Fabrication, assembly, integration and testing of mechanical sub systems for underwater acoustic measurement, deployment / retrieval of the system.</p> <p>vi) Design and Drafting of Mechanical Assemblies/Components.3D Modeling using Auto Cad/INVENTOR/SOLID WORKS. Buoy Assembly and Preparation for Deployment and Retrieval operations. Participation in cruise on board the ship</p> <p>vii) Experience in design and fabrication of mechanical casings / structures / Experience in underwater mechanical system design, analysis and field trials / Experience in softwares like Autocad, ATILA, MEMS, ANSYS and PRO-E.</p> <p>viii) To be involved in all survey operations, geotechnical sampling and other field operations and construction/coastal installation at site. Maintenance of all survey equipments, different laboratories, data analysis and its backups.</p> <p>ix) Fabrication, testing and erection of mechanical components for desalination plants and deployment of offshore components in sea, Installation of submarine pipeline, conducting field surveys and drafting of mechanical components using CAD tools</p> <p>x) To carry-out regular ship board inspection on: maintenance of various machineries and handling systems, scientific, navigation and communication equipments onboard / To sail onboard Ships and liaise scientists onboard for scientific operations whenever required.</p>
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Post Code	PSA02-ECE
No. of Post(s)	13 (Thirteen)
Discipline	Electronics & Communication / Instrumentation
Eligibility Criteria	<i>Essential</i> : Diploma in Electronics & Communciation / Instrumentation Engineering or equivalent from a recognized Board / Institution or equivalent with at least first class (60%) with basic knowledge of computer.
Job Requirement	<p>i) Usage of standard electronic / electrical test and measuring equipment, data acquisition system, knowledge of lab view electronics, AUTOCAD (electrical) preferred.</p> <p>ii) Data Acquisition & Control System wiring, loop Testing, Electronics instruments calibration and software testing.</p> <p>iii) Embedded system development (Software & Hardware)</p> <p>iv) Assembly / integration and testing of electronics sub systems for underwater applications, Acoustic sensor testing and calibration, deployment / retrieval of the system.</p> <p>v) Individual & Integrated Testing of Buoy system and</p>

	<p>handling deployment of buoys during cruise. Participation in cruise on board the ship</p> <p>vi) Electronic system design, testing, integration and field trials / Knowledge in underwater communication systems / hardware designs / knowledge in softwares like MATLAB, C, C++, VC++, Orcad.</p>
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Post Code	PSA03-ELE
No. of Post(s)	5 (Five)
Discipline	Electrical / Instrumentation
Eligibility Criteria	<i>Essential</i> : Diploma in Electrical / Instrumentation Engineering or equivalent from a recognized Board / Institution or equivalent with at least first class (60%) with basic knowledge of computer.
Job Requirement	<p>i) Testing of electrical machines, transformers, drivers, etc. Interfacing and Panel wiring, power devices, handling high voltage systems, testing and calibration of electrical machines.</p> <p>ii) To carry-out regular ship board inspection on: maintenance of various electrical systems onboard / To sail onboard Ships and liaise scientists onboard for scientific operations whenever required. Knowledge on shipboard equipments is essential.</p> <p>iii) Preparation of estimates and drawings, site supervision, measurements taken, bill certification and maintenance of DG set / transformer.</p> <p>iv) Testing and maintenance of electrical/instrumentation systems such as control panel, pumps, vacuum system etc. for desalination plants in islands, development, testing and integration of transducers for field studies related to offshore structures and operation of oceanographic instruments.</p>

Post Code	PSA04-CVL
No. of Post(s)	10 (Ten)
Discipline	Civil
Eligibility Criteria	<i>Essential</i> : Diploma in Civil Engineering or equivalent from a recognized Board / Institution or equivalent with at least first class (60%) with basic knowledge of computer.
Job Requirement	<p>i) Supervision of RCC and / or steel construction, knowledge of measurement book, bill of materials, drawings and AUTOCAD preferred.</p> <p>ii) To be involved in all survey operations, geotechnical sampling and other field operations and construction/coastal installation at site. Maintenance of all survey equipments, different laboratories, data analysis and its backups.</p> <p>iii) Surveying and supervision of marine/offshore structures for desalination plants in islands, field experiments related to offshore structures, collection of field data, data processing, etc.</p>

	iv) Preparation of estimates and drawings, site supervision, measurements taken, bill certification and maintenance of buildings, roads and plumbing works.
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Post Code	PSA05-EE
No. of Post(s)	2 (Two)
Discipline	Electrical & Electronics
Eligibility Criteria	<i>Essential</i> : Diploma in Electrical & Electronics Engineering or equivalent from a recognized Board / Institution or equivalent with at least first class (60%) with basic knowledge of computer.
Job Requirement	High voltage electrical system maintenance and trouble shooting, cable splicing and termination and AC/DC motors drives and controls.

Post Code	PSA06-CS
No. of Post(s)	4 (Four)
Discipline	Computer Science / System Analyst
Eligibility Criteria	<i>Essential</i> : Diploma in Computer Science / B.Sc in Computer Science / BCA or equivalent from a recognized Board / Institution / University or equivalent with at least first class (60%) with basic knowledge of computer.
Job Requirement	<ul style="list-style-type: none"> i) Data reception, management, quality control, archive, and support to field activity ii) Maintenance of servers, laptops, printers and Desktops. Administration of HP Servers, Network, SGI servers, HP works station etc. Maintenance of data backup devices, NAS servers etc. iii) Development, maintenance of database for various in-house requirements and development of tools and techniques to utilize biological information using in-silico process for modeling and validation.

Post Code	PSA07-ELC
No. of Post(s)	3
Discipline	Electronics
Eligibility Criteria	<i>Essential</i> : Diploma in Electronics Engineering or equivalent from a recognized Board / Institution or equivalent with at least first class (60%) with basic knowledge of computer.
Job Requirement	i) To be involved in all survey operations, geotechnical sampling and other field operations and construction/coastal installation at site. Maintenance of all survey equipments, different laboratories, data analysis and its backups.

Post Code	PSA08-LS
No. of Post(s)	10 (Ten)
Discipline	Life Science / Life or Chemical or Environmental Sciences

Eligibility Criteria	Essential : - Bachelor's degree in Life Science / Chemical / Environmental Sciences or equivalent from a recognized university with at least first class (60%) with basic knowledge of computer.
Job Requirement	<p>i) To be involved in all survey operations, geotechnical sampling and other field operations and construction/coastal installation at site. Maintenance of all survey equipments, different laboratories, data analysis and its backups.</p> <p>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. Participation in scientific cruises on board research vessels/SCUBA diving.</p>

II. Name of the Post **Project Technician (37 Posts)**
Salary Range **Rs. 14200 - 15800**
Age Limit **Below 28 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:

Post Code	PT01-MECH
No. of Post(s)	5 (Five)
Discipline	Mechanical
Eligibility Criteria	<p>Essential : - ITI in Mechanical / 10+2 (Sr. Sec.) or its equivalent qualification from a recognized Board or university with Basic knowledge of computer.</p> <p>Desirable :- Two years in the specified field.</p>
Job Requirement	<p>i) Fabrication / procurement of mechanical components, maintenance of the mechanical components, assembly, testing and integration of mechanical sub components.</p> <p>ii) Assisting the engineers in the testing of the mechanical systems, positioning in the tank, maintenance activities of the tank etc. Participation in field testing of systems whenever necessary.</p> <p>iii) To be involved in all survey operations, oceanographic data collection, other field operations and construction /coastal installation. Equipment and laboratories store maintenance work.</p> <p>iv) Support at field level to Scientists, Scientific Assistants for design, testing, integration and erection of mechanical systems for desalination plants in islands and offshore structures, field survey and deployment of oceanographic instruments.</p>

Post Code	PT02-ELE
No. of Post(s)	9 (Nine)
Discipline	Electrical / wireman
Eligibility Criteria	Essential : - ITI in Electrical / Wireman / 10+2 (Sr. Sec.) or its equivalent qualification from a recognized Board or university with Basic knowledge of computer. Desirable :- Two years in the specified field.
Job Requirement	i) Fabrication and erection of Electrical Components, testing of pumps, control panels, testing of equipment. ii) To be involved in all survey operations, oceanographic data collection, other field operations and construction /coastal installation. Equipment and laboratories store maintenance work. iii) Operation and maintenance of PS system / video at auditorium. Telephone data maintenance DG, Transformer and electrical maintenance supervision of contracts – electrical works. iv) Electrical system wiring and cable routing and General Electrical system maintenance. v) Support at field level to Scientists, Scientific Assistants for design, development of electrical/instrumentation systems for desalination plants in islands and offshore structures, field survey and deployment of oceanographic instruments.

Post Code	PT03-WEL
No. of Post(s)	2 (Two)
Discipline	Welder
Eligibility Criteria	Essential : - ITI in Welding / 10+2 (Sr. Sec.) or its equivalent qualification from a recognized Board or university with Basic knowledge of computer. Desirable :- Two years in the specified field.
Job Requirement	i) Fillet & Butt welding

Post Code	PT04-FIT
No. of Post(s)	3 (Three)
Discipline	Fitter
Eligibility Criteria	Essential : - ITI in Fitter / 10+2 (Sr. Sec.) or its equivalent qualification from a recognized Board or university with Basic knowledge of computer. Desirable :- Two years in the specified field.
Job Requirement	i) General assembly and hydraulic fittings assembly

Post Code	PT05-ELCI
No. of Post(s)	6 (Six)
Discipline	Electronics / Instrumentation
Eligibility Criteria	Essential : - ITI in Electronics / Instrumentation / 10+2 (Sr. Sec.) or its equivalent qualification from a

	<p>recognized Board or university with Basic knowledge of computer.</p> <p>Desirable :- Two years in the specified field.</p>
Job Requirement	<p>i) DAC system wiring and cable routing PCB soldering and Electronics instruments calibration</p> <p>ii) Assisting the engineers in the testing of the electronic systems, Participation in field testing of systems</p> <p>iii) Assembly and testing of electrical instruments and Instruments / sensors / providing skilled assistance in electrical & electronics work to all the project activities.</p> <p>iv) Support at field level to Scientists, Scientific Assistants for design, development of electrical/instrumentation systems for desalination plants in islands and offshore structures, field survey and deployment of oceanographic instruments.</p>

Post Code	PT06-SEA
No. of Post(s)	2 (Two)
Discipline	Seaman
Eligibility Criteria	<p>Essential : - 10+2 (Sr. Sec.) or its equivalent qualification from a recognized Board or university with Basic knowledge of computer.</p> <p>Desirable :- Two years in the specified field.</p>
Job Requirement	Handling Buoy Assembly, Buoy Deployment & retrieval operations, Preparation for short & long term cruises.

Post Code	PT07-CVL
No. of Post(s)	1 (One)
Discipline	Civil
Eligibility Criteria	<p>Essential : - ITI in Civil – Draftsman / CAD / Quality Surveyor / 10+2 (Sr. Sec.) or its equivalent qualification from a recognized Board or university with Basic knowledge of computer.</p> <p>Desirable :- Two years in the specified field.</p>
Job Requirement	To support at field level to Scientists, Scientific Assistants for detailing of civil/structural works, field survey and data processing for offshore structures and island desalination projects.

Post Code	PT08-RDTECH
No. of Post(s)	1 (One)
Discipline	Radio Technician
Eligibility Criteria	<p>Essential : - 10+2 (Sr. Sec.) with Diploma in Port Development & Management with GMDSS Certificate or its equivalent qualification from a recognized Board or university with Basic knowledge of computer.</p> <p>Desirable :- Two years in the specified field.</p>
Job Requirement	Handling of regular ship boards / Radio equipments.

Post Code	PT09-GEN
No. of Post(s)	8 (Eight)
Discipline	General
Eligibility Criteria	Essential : - 10+2 (Sr. Sec.) or its equivalent qualification from a recognized Board or university with Basic knowledge of computer. Desirable :- Two years in the specified field.
Job Requirement	To support at field level to Scientists, Scientific Assistants dealing with cruise operations and field works.

III. Name of the Post Research Associate (2 Posts)
Salary Range Rs. 22,000/- + HRA

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

Post Code	RA01-LS
No. of Post(s)	2 (Two)
Discipline	Life Science
Eligibility Criteria	Essential : - Doctorate in Life Science or equivalent degree or having 3 years of research, teaching and design and development experience after ME/MTech will be eligible for award as RA.
Job Requirement	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.

III. Name of the Post Senior Research Fellow - SRF (16 Posts)
Salary Range Rs. 18,000/- + HRA

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

Post Code	SRF01-PO
No. of Post(s)	4 (Four)
Discipline	Physical Oceanography / Physics / Oceanography
Eligibility Criteria	Essential : - Post Graduate degree in Physical Oceanography / Physics / Oceanography and NET qualified or equivalent with minimum 60 % marks and at least two years of post qualification, research experience as evidenced from fellowship/associate ship or traineeship and published papers in standard referred journal.
Job Requirement	i) Analysing Oceanographic & Meteorological data. ii) Knowledge in Matlab, data processing methodologies

Post Code	SRF02-LS
No. of Post(s)	12 (Twelve)
Discipline	Life / Chemical Sciences
Eligibility Criteria	Essential : - Post Graduate degree in Life / Chemical Sciences and NET qualified or equivalent with minimum 60 % marks and at least two years of post qualification, research experience as evidenced from fellowship/associate ship 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.

4. JRF - No. of Post(s) - 8
Salary Range : Rs. 16,000/- + HRA

Post Code	JRF01-LS
No. of Post(s)	8 (Eight)
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/associate ship 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.

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 25.01.2012. 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.
 - 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. **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 and 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 No., Post Name and Discipline should be clearly indicated on the envelope.**
12. Outstation candidates called for the interview will be reimbursed the fare limited to single II class sleeper fare by the shortest route from the place of duty / residence and back. Subject to production of 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 / re-prints 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.
21. 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.
- 22. 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.**
23. If the candidate wants his/her application to be considered for more than one post, separate application should be submitted for each post.
24. The candidates selected against the post with Life Science qualification are liable to be posted in Andaman & Nicobar / Lakshadweep Islands.
25. The minimum qualifications / experience can be relaxed for candidates with exceptional and deserving cases.
26. The candidates interviewed and found not suitable for the post applied for, may be considered for a lower Post / Scale.
27. Marine / ocean technology related experience will be an added advantage.
28. 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 : **18.01.2012**

LAST DATE FOR RECEIPT OF APPLICATIONS : **25.01.2012**