NATIONAL INSTITUTE OF OCEAN TECHNOLOGY
(Ministry of Earth Sciences, Government of India)
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ADVERTISEMENT No. NIOT/E&P/05/2024 (Project)

National Institute of Ocean Technology (NIOT), Chennai, an autonomous R&D organization under the Ministry of Earth Sciences, Govt. of India, invites online applications through the website link https://www.niot.res.in/recruitment_details.php for the following positions in various disciplines on contract basis for various projects carried out by NIOT as mentioned below:-

Sl. No.	Name of the Posts	No. of vacancies& Category
1.	Project Scientist III	1 Post (UR)
2.	Project Scientist II	7 Posts (UR)
3.	Project Scientist I	34 Posts(UR-14, ST-4, SC-5, OBC-8, EWS-3)
4.	Project Scientific Assistant	45 Posts(UR-23, ST-5, SC-5, OBC-8, EWS-4)
5.	Project Technician	19 Posts(UR-9, ST-2, SC-1, OBC-6, EWS-1)
6.	Project Field Assistant	10 Posts (UR-6, SC-1, OBC-2, EWS-1)
7.	Project Junior Assistant	12 Posts(UR-5, ST-2. SC-3, OBC-1, EWS-1)
8.	Research Associate	6 Posts (UR-4, SC-1, OBC-1)
9.	Senior Research Fellow	13 Posts (UR-6, ST-1, SC-2, OBC-3, EWS-1)
10.	Junior Research Fellow	5 Posts(UR-4, OBC-1)
	Total	152 Posts

- **The number of vacancies are subject to variation depending on the needs (includes backlog vacancies)**

Please read the **terms and conditions** and the instructions for **how to apply** carefully**.**

Details of the posts with discipline, Essential qualification, age limit and the job- requirements etc.,

Name of the Post : Project Scientist – III
Number of Post(s) : 01 (Un-reserved)
Maximum age limit : 45 years (Age relaxation as per Govt. of India norms)
Emoluments : Rs. 78,000/- + HRA
(Increment of 5% for every two years of experience subject to performance review)

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Life Science (1 post) **(Un-reserved)** **Post Code: PSIII-LS**	**M.Sc. in Marine Biology/ Marine Science/ Zoology** from a recognized university / Institute with 60%marks in the qualifying degree level with Seven years' experience in Research in the fields of marine biology, open sea cage culture, zooplankton & phytoplankton analysis, sea water quality testing.	**Ph. D. in the field of Marine Biology/ Marine Science** from recognized University/National laboratory.	• Should be capable of Planning and carrying out analysis related to isolation and culture of marine micro & macro algal, breeding, larval rearing of finfish and offshore cage culture. • Physico-chemical analysis of seawater and analysis and culture of phytoplankton/Zooplankton for ballast treatment testing. • Participation in scientific cruise and field studies.

Name of the Post : Project Scientist – II
Number of Post(s) : 7 (Un-reserved)
Maximum age limit : 40 Years(Age relaxation as per Govt. of India norms)
Emoluments : Rs. 67,000/- + HRA
(Increment of 5% for every two years of experience subject to performance review)

Discipline / Reservation	Qualification	Desirable	Job Requirement
Mechanical **(3 Posts)** (Unreserved) **Post Code:** **PSII-MECH**	**M.E. / M.Tech in Mechanical / Thermal / Production / Marine / Naval Architecture/ Ocean Engg./ Industrial Engineering** from a recognized University / Institute with 60% marks in the qualifying degree level With **Three years' experience** in Research & Development ,Survey / Planning, supervision or training in the relevant field.	MoT [Marine Officers' Training] qualification from a recognized Institute.	• Design / Development / Analysis of Mechanical Systems / Sub systems / Offshore, Floating Structures / Underwater components/ Thermal systems / equipments, Design of rotating machinery. • Assembly, Fabrication, Integration, evaluation, testing and commissioning and monitoring of systems / equipments, Design of rotating Machineryand various other components for Desalination and OTEC Plants, and also experimental techniques for underwater components • Management, operation, maintenance and trouble shooting of research vessels; follow-ups, documentation, inspection and monitoring of ship building / dry-dock & afloat repairs process. • Deployment and retrieval of floating and underwater systems, offshore data collection platforms, • Ship cruises for scientific works and planning. • Hands of experience in codes and standards (ASME, HTRI, BIS, etc) and in softwares such as -Autocad, Solidworks, Catia, PRO-E, ANSYS, COMSOL, ANSYS-AQWA, Orcaflex, MATLAB, Simulink, -MARPOL & SOLAS regulations, • Various ship maintenance engineering solutions & Safety at Sea, Knowledge on Assembly & integration of Shipboard machinery, Welding technology & Ship technology, and / or experience of sailing onboard Ships.

Discipline / Reservation	Qualification	Desirable	Job Requirement
Life Science (2 Posts) (Un-reserved) **<u>Post Code:</u>** **<u>PSII-LS</u>** **(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)**	**M.Sc. in Marine Biology/ Marine Science/ Zoology/ Microbiology** from a recognized university/ Institute with 60% marks in the qualifying degree level. With **Three years' of research experience** in the field of marine biology, marine microbiology, open sea cage culture, zooplankton & phytoplankton analysis, sea water quality testing.	• Ph. D. in Marine Biology/ Marine Science/ Zoology/ Microbiology from a recognized university.	• Should be capable of Planning and carrying out analysis related to Isolation and culture of marine micro & macro algal, breeding, Isolation and characterization of marine microbes/ larval rearing of finfish and offshore cage culture. • Physico-chemical analysis of seawater and analysis and culture of phytoplankton/ Zooplankton for ballast treatment testing. • Participation in scientific cruise and field studies.
Physical Oceanography **(1 Post)** (Un-reserved) **<u>Post Code:</u>** **PSII-PO**	**Masters Degree in Oceanography / Physical Oceanography / Physics/ Chemical Oceanography/ Ocean Technology / Ocean Science** from a recognized University / Institute with 60% marks in the qualifying degree level. With **Three years' experience** in Research & Development, planning and management in industry and/or the area of work as per the job requirement.	• Doctorate in Oceanography / Physical Oceanography/ Physics from a recognized University / Institute. • Relevant computer programming skills • Good knowledge in MATLAB and data processing methodologies	• Oceanographic data collection, data processing, quality control and application of numeric models. Analyzing oceanographic data using tools like MATLAB, Ferret etc. • Participating in cruises for the data collection and maintenance of ocean observation platforms. To interact with port officials/ship agent • Coastal processes modeling, planning, coordinating and managing field data collection programs, hydrodynamic modeling related to ocean /coastal engineering. • Carryout oceanographic survey, and data collection at costal /offshore locations, involve in Laboratory studies, Instrumentation, Site assessment studies/CRZ/GIS. Good knowledge in software tools like Matlab, C, Fortran, etc. • Planning and execution of sea trials and field experiments. • Oceanographic and acoustic data processing & analysis, • Satellite data processing • Scientific / technical report preparation and any other project related documentation • Coastal processes modeling,

Discipline / Reservation	Qualification	Desirable	Job Requirement
			planning, coordinating and managing field data collection programs, seabed engineering investigations, bathymetry and topography survey, hydrodynamic modeling related to ocean/coastal engineering.
ECE / E&I (1 Post) (Un-reserved) **<u>Post Code:</u>** **PSII-ECE/EI**	**M.E. / M.Tech. in Electronics & Communication / Electronics / Applied Electronics/ VLSI Design/ Embedded system design/ Instrumentation & Control/Communication systems** from a recognized university or institute with 60% marks in the qualifying degree level. With **Three years' experience** in Research & Development, Survey / Planning, supervision or training in the relevant field.	• Knowledge in Embedded System design • Programming and verification of C/C++/MATLAB/PYTHON/Java • Data acquisition/ SCADA /LabView • Signal and image processing • Satellite communications • Circuit design with ORCAD, Pspice	• Planning, coordination and participating in field studies in coastal regions and scientific cruises. • Installation of systems on-board ships • Calibration and testing of underwater acoustic sensors / accreditation processes

Name of the Post **: Project Scientist – I**
Number of Post(s) **:34 (**UR-14, ST-4, SC-5, OBC-8, EWS-3**)** Three post will be suitable for PwD category
Maximum age limit **: 35 (Age relaxation as per Govt. of India norms)**
Emoluments **: Rs. 56,000/- + HRA**
(Increment of 5% for every two years of experience subject to performance review)

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Mechanical (8 Posts) UR-2 ST-1 SC-4 OBC-1 **<u>Post Code:</u>** **PSI- MECH**	**B.E. / B.Tech. in Mechanical Engg.**from a recognized University / Institute with 60% marks in the qualifying degree level.	M.E. / M.Tech from a recognized University / Institute in any of the following disciplineswith 60% marks in the qualifying degree level. Mechanical/Thermal /Production/ Engg. Design/Computer Aided Design/Naval Architecture/ Ocean Engg/Aeronautical Engg.	• Design, Analysis and Development of Mechanical Systems / Sub systems for - Components such as moorings, fixed / floating / underwater /offshore structures - thermal systems / components • Fabrication, Assembly, Integration and Testing of Systems / Subsystems / Components in the Lab / Sea / project sites in Mainland / Islands. • To participate in cruises Field survey / deployment / retrieval operations. • To assist in retrieval and deployment of Oceanographic equipment / underwater systems, offshore data collection & participation in ship cruises • Cruise onboard NIOT research vessels/ Monitor & maintenance of ships and to troubleshoot ship board machineries • To supervise the dry-dock works, construction of ships / Maintain and control inventory/Liaise with IRS/DNV. • Working knowledge of - FEA software like ANSYS - FEM softwares like Fluent, CFX, Ansys-Mechanical, - 3D-CAD modelling of components and integrated mechanical systems using Inventor, Solidworks, Autocad, ProE, Catia - Ansys Aqua, Orcaflex, Matlab, Simulink MARPOL & SOLAS regulations, Knowledge on Welding technology & Ship technology.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Physical Oceanography (3 Posts) UR-1 SC-1 OBC-1 **<u>Post Code:</u>** **PSI-PO**	**Master's Degree in Oceanography/ Physical Oceanography/ Chemical Oceanography/Physics/Ocean Technology/ Ocean science** from a recognized university with 60% marks in the qualifying degree level.	• Ph. D in Oceanography / Physical Oceanography/ Physics / Chemical Oceanography Ocean science / Marine sciences from a recognized University / Institute. • Two years of relevant experience in R&D in industrial or S&T organizations and scientific activities and services • Working Knowledge in MATLAB / C / Fortran and data processing methodologies. • Experience in Python & R Programming, Ferret, and related software.	• Coastal processes modelling, planning, coordinating and managing field data collection programs, hydrodynamic modelling related to ocean /coastal engineering. • Carryout oceanographic survey, and data collection at costal / offshore locations, involve in Laboratory studies, Instrumentation, Site assessment studies / CRZ / GIS related surveys • Physico-chemical analysis of seawater and sediment. EIA studies related to coastal and marine environment. Metal analysis marine waters / sediment. • Field Sample collection and Analysis of nutrients, metals, pesticides, etc. in sea water and sediments. • Experience in handling of Spectrophotometer, AAS/ICPMS, GC • Oceanographic/acoustic Data Processing and Analysis. • Machine learning and Data mining applications • Numerical modelling / Sound Propagation model • Scientific / technical report preparation and any other project related documentation. • Oceanographic data collection, data processing, quality control and application of numeric models. Analysing oceanographic data using tools like MATLAB, Ferret. etc. • Participating in cruises for the data collection and maintenance of ocean observation platforms

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
ECE / E&I (6 Posts) UR-1**(**Locomotor disability /cerebral palsy category may be suitable for this post), ST-2, OBC-1, EWS-2 **<u>Post Code:</u>** **PSI-ECE/EI**	**B.E/B.Tech. in Electronics & Communication / Instrumentation Engg**. from a recognized University / Institute with 60% marks in the qualifying degree level.	M.E./M..Tech. in Electronics & Communication / Electronics / Applied Electronics/ VLSI Design/ Embedded system design/ Instrumentation & Control / Communication systems	The job involves carrying out : • Embedded System design • Programming in C/C++/MATLAB/PYTHON/ Java. • SCADA /LabView • Signal processing • Satellite communications • Circuit design with ORCAD • Installation of systems on-board ships • Field studies coastal regions/ Participation in scientific cruises including data buoys.
Life Science (5 Posts) UR-3 OBC-2 (one post will be suitable for PwD – Locomotor disability / cerebral palsy) **<u>Post Code:</u>** **PSI-LS**	**M.Sc. in Marine Biology/ Marine Science/ Zoology** from a recognized university / Institute with 60% marks in the qualifying degree level.	• Ph.D. Marine Biology / Marine Science/ Zoology from a recognized University / Institute.	• Should be capable of planning and carrying out analysis related to Isolation and culture of marine micro & macro algal, breeding, larval rearing of finfish and offshore cage culture., Cell and Developmental Biology of Marine Organisms / Physiological, Neurological and Behavioral Biology of Marine Organisms/ culture of phytoplankton, zooplankton. • Physico-chemical analysis of seawater and analysis and culture of phytoplankton / zooplankton for ballast treatment testing experiments/ pollutants, Microplastics / Marine Biodiversity, Taxonomy. • SCUBA Diving for coastal sample collection and analysis. • Preparation of projects, reports, technology development and transfer • Participation in scientific cruise and field studies.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Biotechnology (2 Posts) UR-1, OBC-1 **<u>Post Code:</u>** **PSI-BIOTECH** (One post at ACOSTI, SRI VIJAYA PURAM ISLAND)	**M.Sc in Biotechnology/ Marine Biotechnology** from a recognized university / Institute with 60% marks in the qualifying degree level**.** **or** **B.E. / B.Tech in Biotechnology** from a recognized university / Institute with 60% marks in the qualifying degree level.	Ph.D./M.Tech./ M.E. in Biotechnology//Marine Biotechnology.	• Planning and carrying out analysis related marine biology and related marine bioengineering / Marine Biotechnology/Genomics and Proteomics/Metagenomics/Bioinformatics/genetic Engineering /Molecular Biological studies/ tissue regeneration, wound healing /gene expression/Bioactive product isolation and characterization /handling of highly sophisticated scientific equipments • Computational and System Biology of Marine Organisms/ Participation in scientific cruise and field studies. • Preparation of projects report, technology development and transfer.
Electrical (1 Post) UR-1 **<u>Post Code:</u>** **PSI-EEE**	**B.E/B.Tech. in Electrical / Electrical & Electronics Engg** from a recognized University / Institute with 60% marks in the qualifying degree level.	M.E in Power Electronics /Power system	Working in design, selection and operation of Rotating machines • Transformers • SCADA/ Data loggers • MATLAB/Simulink • Protection Coordination (ETAP/SKM) • Programmable logic controllers • Installation and maintenance of on-grid/off-grid renewable electrical systems and desalination plants in islands and mainland • Participation in offshore scientific cruises.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Civil **(4 Posts)** UR-2, ST-1, OBC-1 **<u>Post Code:</u>** **PSI-CIVIL**	**B.E./B.Tech. in Civil Engg**. from a recognized university / Institute with 60% marks in the qualifying degree level.	• M.E/M.Tech in Civil in any of the following disciplines: Ocean Engineering/technology/ Geotechnical Engineering/ Structural Engineering /Offshore structures/ Ports and Harbor Engineering/ Water resource Engineering • and relevant Experience in areas given in job requirements • Knowledge in BIS standards for structural works and/or DNV/API standards for offshore component design. • Knowledge in software like STAAD PRO, ANSYS, SACS, ORCAFLEX, MOSES, PLAXIS, AUTOCAD (2D & 3D)	• Coastal processesmodeling, hydrodynamic modeling and designof ocean / coastal structures. • Analysis, Design and execution of nearshore/ onshore and offshore Civil / Structural works in mainland/islands. • Analysis and Design of offshore components such as moorings, pipelines and fixed/floating structures. • Analysis and design of foundations for onshore and offshore structures,. • Field surveys /deployment / retrieval operations at coastal / offshore locations, Laboratory analysis, Instrumentation, Insitu and field onshore and offshore geotechnical investigations • Planning/Preparation of construction schedules, drawings, BOQ and estimations. • Site assessment studies and studies related to CRZ/EIA and use of GIS tools • Working on software like STAAD PRO, ANSYS, SACS, ORCAFLEX, MOSES, PLAXIS, AUTOCAD (2D & 3D) • Use of DNV / API standards for offshore component design • Use of software tools like Matlab, C, Fortran, etc • Work in various coastal sites including islands of Lakshadweep and Andamans.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Microbiology / Marine Microbiology (01-Post) OBC-1 **Post Code:** **PSI-MB**	**M.Sc. / B.Tech. in Microbiology / Marine Microbiology** from a recognized university / Institute with 60% marks in the qualifying degree level.	Ph. D. /M.Tech. in the field of Marine Microbiology from a recognized university.	• Should be capable of planning and carrying out analysis related marine microbiology, marine microbial ecology and related marine microbial engineering, • planning and carrying out Isolation, culture, characterization, molecular and genomic analysis of marine microbes// Metagenomics / Bioinformatics / Bioactive product Isolation and characterization. • Handling of highly sophisticated scientific equipments • Participation in scientific cruise and field studies/ Interpretation of results. • Preparation of projects, reports, technology development and transfer
Bioinformatics (01-Post) Unreserved-1(Locomotor disability /cerebral palsy category may be suitable for this post) **Post Code:** **PSI-BI**	**M.Sc/ B.Tech in Bioinformatics** from a recognized University / National laboratories with 60% marks in the qualifying degree level	Ph. D. /M.Techin the field of Bioinformatics from a recognized university	• Should be capable of planning and carrying out genomic and metagenomic analysis of marine microbes/development of bioinformatics pipelines • Participation in scientific cruise and field studies /Interpretation of results /compilation of reports.
Chemistry (02-Post) UR-1, EWS-1 **Post Code:** **PSI-CHEM**	**Master's Degree in Chemistry/Medicinal Chemistry/Biochemistry** from a recognized University / Institute with 60% marks in the qualifying degree level. Or **B.E./B.Tech Bio-medical engineering**from a recognized University / Institute with 60% marks in the qualifying degree level.	Ph. D. in the field Chemistry / Medicinal Chemistry/Biomedical Engineering	• Expertise in bioactive compound extraction, compound purification from marine flora and fauna. • Biochemistry of Marine Organisms / Synthetic Organic and Medicinal Chemical compound / Sound Knowledge on NMR, LCMS, FT-IR, chromatography (HPLC, GC-MS) • Participation in scientific oceanographic cruise and field studies. • Assist scientists in preparation of projects reports, capacity building development programme, technology development and transfer.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Coastal Management/ Remote Sensing & GIS (01-Post) **UR-1** **<u>Post Code:</u>** **PSI-OT/CM**	**Post Graduate Degree in Ocean Science and Technology /Coastal Management/Remote sensing and GIS** from a recognized University / Institute with 60% marks in the qualifying degree level.	Ph. D. /M.TechOcean Science and Technology /Coastal Management/Remote sensing and GIS.	• Should be capable of Planning and carrying out analysis related Spatial data preparation using Remote sensing and GIS in marine sciences. • Preparation of marine habitat smapping studies. • Remote sensing study related marine sciences /Land Use prediction models/Conducting Ground Truth surveys/ Hydrodynamic models / Climate change studies. • Working experience in Geo-graphics Information System (GIS) software / Remote sensing / shoreline changes. • Participation in scientific cruise • Preparation of projects Technical / Scientificreports of technology development

Name of the Post : **Project Scientific Assistant**
No. of Post(s) : **45(**UR-23, ST-5, SC-5, OBC-8, EWS-4**)**Three post will be suitable for PwD category.
Maximum age limit : **50 (Age relaxation as per Govt. of India norms)**
Emoluments : **Rs. 20,000/- + HRA**
(Increment of 15% for 3 years of experience with maximum ceiling of 4 such revision, i.e., up to 12 years of experience subject to performance review)

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Mechanical (3 Posts) UR-2, ST-1 **Post Code:** **PSA-MECH**	**Three years Diploma in Mechanical / Mechatronics / Automobile Engineering** from a recognized Institute with 60% marks.	• Any higher qualification in the relevant discipline/field. • Knowledge in software like AUTOCAD (2D & 3D) is desirable. • Experience in assembly, integration, testing, and field operations, Maintenance of mechanical systems at R&D Institute, Industry and /or the area of work as per the job requirement.	• Erection and commissioning of equipments / machineries in project sites at Islands / Mainland. • Site supervision including reading specifications, drawings, supervising the Manufacturing / Fabrication / Assembly / Integration and testing activity in shop floor, ensuring quality, co-ordination between various inspection agencies and contractors. • Operation and maintenance of power / process plants at Islands / Mainland. • Preparation of mechanical 2D and 3D Drawings / Modeling using Autocad / Inventor / Solid works / Catia / Pro E etc. • Maintenance of EOT crane, Positioning systems, • Fabrication / Assembly / Integration and testing of mechanical sub systems for underwater applications, • To assist in retrieval and deployment of Oceanographic equipment, offshore data collection and participation in ship cruises

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Life Sciences (11Posts) UR-7, ST-1, SC-1(post will be suitable for PwD – Locomotor disability /cerebral palsy category/ Hearing impairment) OBC-2 **Post Code:** **PSA-LS** (Two posts at ACOSTI, SRI VIJAYA PURAM ISLAND)	**Bachelor's degree in Zoology / Botany /Biochemistry** from a recognized University / Institute with 60% marks.	• Master's degree in Marine Biology/ Marine Science/ Marine Biotechnology / Botany /Zoology / Biochemistry from a recognized University • Two years experience (after obtaining essential educational qualification) in Research and Development in the area listed in job requirement.	• Capable of carrying out preparatory works in the laboratory for research and development pertaining to marine micro & macro algal / offshore cage culture / physicochemical / biological analysis of seawater. • Participation in scientific cruise / SCUBA diving and field work.
Bio-Technology/ Micro Biology (7 posts) UR-3, ST-1, SC-1, OBC-2 **Post code:** **PSA-BIOTECH** (One post at ACOSTI, SRI VIJAYA PURAM ISLAND)	**Bachelor's degree in Microbiology/ Biotechnology** from a recognized University/Board with 60% marks.	• Master's degree in Marine Microbiology / Biotechnology / Bioinformatics from a recognized University /National laboratories. • Two years experience (after obtaining essential educational qualification) in Govt. Dept. / Organization/ Autonomous Body / Research and Development in the area listed in job requirement.	• Capable of carrying out preparatory works in the laboratory for research and development pertaining to marine genome/ metagenome analysis • Development and maintenance of bioinformatics tools and database. • Participation in scientific cruises and field studies.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Bioinformatics (3 Posts) UR-2, OBC-1(suitable for PwD – Hearing Impairment category/ Locomotor disability /cerebral palsy category) **Post Code:** **PSA-BI**	**Bachelor's degree in Bioinformatics** from a recognized university / Institute with 60% marks in the qualifying degree level	• Master's degree in Bioinformatics from a recognized university / • Two years experience (after obtaining essential educational qualification) in Govt. Dept. / Organization/ Autonomous Body / Research and Development in the area listed in job requirement.	• Should be capable of carrying out preparatory works in the laboratory for research and development pertaining to Bioinformatics analysis of marine genomic and metagenomic data/ Development of Bioinformatics tools. • Participation in scientific cruise and field studies.
ECE / E&I (5 Posts) UR-3, SC-1, EWS-1 **Post Code:** **PSA-ECE/EI**	**Three years Diploma in Electronics& Communication/Electronics & Instrumentation** engineering from a recognized Institute with 60% marks.	Experience of 2 years in R&D, Industry and/or higher qualification as per the job requirement.	• Assembly, Integration and testing of Marine Electronics Systems/sub systems, data acquisition systems • Underwater systems, deployment / retrieval operations, calibration, tests & trials of electronics subsea system. • Participation in cruises for the maintenance of ocean observation platforms. Working with Data/Tsunami buoy systems, Data Acquisition & Control and Telemetry System for offshore data platforms. Handling Meteorological and Oceanographic sensors. • Installation of instruments and Calibration, and Implementation of Data acquisition, Instrumentation & control systems for Island based desalination plants • Software skills in ORCAD/PADS/LabView/ PLC • Participation in offshore scientific cruises.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Electrical (5 posts) UR-2, ST-1, OBC-1, EWS-1 **<u>Post Code:</u> PSA-EEE** (One post at ACOSTI, SRI VIJAYA PURAM ISLAND)	**Three years Diploma in Electrical Engineering / Electrical & Electronics** engineering from a recognized Institute with 60% marks.	Experience of 2 years in R&D, Industry and/or higher qualification as per the job requirement.	• Installation and maintenance of on-grid/off-grid renewable electrical systems and desalination plants in islands and mainland. • Operation and maintenance of Genset, Transformer, rotating machine and drives. • Testing of electrical and acoustical parameters for underwater acoustic sensors, Laboratory accreditation processes, Monitoring laboratory environmental parameters and maintenance of records etc. • Handling of electrical /electronic systems in laboratory • Software skills in Electrical CAD , ORCAD PSpice, GNU Octave. • Participation in offshore scientific cruises.
Chemistry/ Physics (4 Posts) UR-2, ST-1, OBC-1 **<u>Post Code:</u> PSA-CHEM/PHY**	**Bachelor's degree in chemistry/Physics** from a recognized University / Institute with 60% marks.	• Master's degree in chemistry/Physics from a recognized University / Institute • Two years experience (after obtaining essential educational qualification) in Research and Development in the area listed in job requirement .	• Capable of carrying out preparatory works in the laboratory for research and development pertaining to purification and Characterization of Marine naturals products/ purification of marine bioactive compound/ estimation of water quality parameter. • Analysis of sea water, marine chemistry, Physics & macro algal/ water chemistry/Physicochemical / Nanotechnology / Nanophysics. • Participation in scientific cruise and field work.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Computer Science (2 Posts) UR-1 (suitable for PwD –Hearing Impairment/ category/ Locomotor disability /cerebral palsy category) EWS-1 **<u>Post Code:</u> PSA-CS**	**B.Sc Computer Science / BCA / Three years Diploma in Computer Science** from a recognized University/ Institute with 60% marks.	• M.Sc Computer Science/ M.Sc I.T/ MCA/B.E(CSE) • Experience in data acquisition and control systems/ remote control sensors and instrumentation/ software testing and R&D.	• Knowledge in Programming, maintenance of IT infrastructure operations and Data base Management and, Application Software development • Knowledge in data plotting, scientific software (eg Python/Matlab/Ferret/ Origin) • Middleware development, Scientific Data Plotting • Knowledge in Microsoft Technologies platform, SQL, MySQL, Unix/Linux, Core Java, VBA, RDBMS, etc. • Software development, maintenance, fixing of errors, generating reports, and end user support based on bugs reported • writing program codes, review & improvement of existing softwares, backup and maintenance; testing the product in controlled, real situations before going live; preparation of training manuals for users • Should be capable of carrying out preparatory works in the laboratory for research and development pertaining to marine genome database management/ Workstation maintainers / maintenance of in-house project of AMSOB database/ Coordination with Website developer and updating of website and monitoring.
Civil (5 Posts) UR-1, SC-2, OBC-1, EWS-1 **<u>Post Code:</u> PSA-CIVIL-9** **(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)**	**Three years Diploma in Civil** Engineering from a recognized Institute with 60% marks.	• Any higher qualification in the relevant discipline/field. • Knowledge in AUTOCAD (2D & 3D) • Experience in oil and gas / offshore industries or R&D in Ocean Engineering / Technology. **NOTE: Involves work in various project sites at**	• Knowledge in site execution including preparation of estimates, specifications and drawings as per CPWD codal provisions, supervising the construction/fabrication activities, quality control/assurance, recording measurements in M-book and bill preparation, co-ordination between various agencies and contractors. • Carrying out oceanographic survey including bathymetry studies, data collection, field installation and retrieval operations in coastal / offshore locations. • Operation, maintenance and

		Islands/Mainland.	inspection of scientific equipments and to participate in the scientific cruises, dry dock works and construction of ships / maintain and control inventory. • Assist laboratory operations / instrument maintenance, diving skill.

Name of the Post **: Project Technician**
No. of Post(s) **: 19 (**UR-9, ST-2, SC-1, OBC-6, EWS-1**)**
Emoluments **: Rs. 20,000/- + HRA**
Maximum age limit **: 50**(Age relaxation as per Govt. of India norms)

Discipline/ Reservation	Essential Qualification	Desirable	Job Requirement
Fitter (5 Posts) UR-2, ST-1, OBC-2 **Post Code:** PT-FITTER	**10th standard with two years ITI Tradesman Course in Fitter** approved by National Council for Vocational Training or its equivalent from recognized Institutions.	Basic reading of Engineering drawing, Basic knowledge in manufacturing tools and process. Two years experience in assembly of mechanical systems	• Candidate needs to work at various project sites at Islands/Mainland. • Dismantling, Repairing and reassembling equipment such as Rotating machinery systems, plant equipments and assisting field testing operation of varies mechanical systems and sub systems. • Participating in cruises for the deployment & retrieval operations
Electrical (6 Posts) UR-2, ST-1, SC-1, OBC-1, EWS-1 **Post Code:** PT-ELECTRICAL	**10th standard with two years ITI Tradesman Course in Electrician** approved by National Council for Vocational Training or its equivalent from a recognized Institutions.	2 years work experience in Operation / maintenance of electrical equipments, Wiring of control panels, Industrial wiring, cable termination, assembly and integration of electrical system, handling of low and high voltage equipment	• Candidate needs to work at various project sites at Islands/Mainland. • Assembly and Integration of the electrical system, Wiring of control panels, Industrial wiring, cable termination, low and high voltage system erection. Maintenance of Electrical installations, Generators, Transformers, etc., onshore, on board ships and Offshore installations and handlings.

Electronics (5 Posts) UR-3, OBC-2, (**Post Code:** PT-ELECTRONICS	**10th standard with two years ITI Tradesman Course in Electronics / Instrumentation** approved by National Council for Vocational Training or its equivalent from a recognized Institutions.	Two years work experience in Operation /maintenance of electronics equipments. Wiring, assembly and integration of control panels and circuit boards. Instrumentation cable glanding, termination. Calibration and erection of sensors. Handling of instrumentation and control, data acquisition systems.	• Candidate needs to work at various project sites at Islands/Mainland. • Industrial panel wiring and Interfacing, PCB soldering and Assembly, Handling of electronic instruments, Assembly, testing and calibration of instruments/Sensors, Interfacing and panel wiring, Installations of electronic systems on board ships, Offshore installations and handlings
Discipline/ Reservation	**Essential Qualification**	**Desirable**	**Job Requirement**
Air Conditioning **(3 Posts)** **UR-2,OBC-1** **Post Code:** PT-AC (One post at ACOSTI, SRI VIJAYA PURAM ISLAND)	**10th standard with two years ITI Tradesman Course in Refrigeration / Air Conditioning** approved by National Council for Vocational Training or its equivalent from recognize Institutions.	Two years Experience in handling Industrial Air condition systems	• Candidate needs to work at various project sites at Islands/Mainland. • Installation, operation and maintenance of refrigeration and air conditioning systems. Reading and understanding of engineering drawings, symbols and support scientist in scientific cruises operation and field work.

Name of the Post : **Project Field Assistant**
No. of Post(s) : **10 (**UR-6, SC-1, OBC-2, EWS-1**)**
Emoluments : **Rs. 20,000/- + HRA**
Maximum age limit : **50 (**Age relaxation as per Govt. of India norms)

Essential Qualification	Desirable	Job Requirement
Must have passed Plus-Two(+2) Examination with Science (Physics/ Chemistry/ Botany & Zoology) or (Physics/ Chemistry / Biology & Maths) streams from a recognized state board/CBSE **Post Code:** **PFA** (Two posts at ACOSTI, SRI VIJAYA PURAM ISLAND)	• Working experience in coastal and Marine filed surveys. • Working knowledge in lab instruments/operation /maintenance of lab equipments. • Assist in data entry • To assist the scientists in field and laboratory activity in R&D institution.	• Candidates need to work at various project sites at Islands/Mainland. • Maintenance of laboratory /field equipments/onshore on board ships and offshore installation and handling.

Name of the Post : **Project Junior Assistant**
No. of Post(s) : **12(**UR-5, ST-2. SC-3, OBC-1, EWS-1**)**
Emoluments : **Rs. 20,000/- + HRA**
Maximum age limit : **50 (**Age relaxation as per Govt. of India norms)

Essential Qualification	Desirable	Job Requirement
Any degree from a recognized University **Post Code:** PJA (One UR category post will be suitable for PwD – Locomotor disability /cerebral palsy / Hearing impairment)	• Working experience of 2 years in organization of repute. • Working knowledge of Computer, stenography and typing.	• Knowledge in Office and accounting procedures, word processing and data entry • Secretarial Assistance in carrying out the day to day functions of the Institute in Finance and Accounts, Stores and Purchase and Establishment Sections and Scientific groups.

Name of the Post : Research Associate (RA)
No. of Post(s) : 6 (UR-4,SC-1, OBC-1)
Emoluments : Rs. 58,000/- + HRA
Maximum age limit : 35

Discipline / Reservation	Essential Qualification	Job Requirement
Oceanography / Physical Oceanography /Physics (1 Post) (Unreserved) **<u>Post Code</u>** RA-PO	**Doctoral Degree in Oceanography/ Physical Oceanography/Physics /Oceanic Sciences** Or **M.Tech- Ocean Technology with three years** R&D experience research, teaching, design & development after acquiring M.Techand having at least one publication in SCI Journal	Oceanographic / acoustic Data processing and analysis ; • Working knowledge in Softwares such as Ferret, GRADS, ODV etc. • Programming Languages: MATLAB, Fortan, C C++. • Numerical modeling of oceanographic processes/ Sound propagation modeling • Participation in scientific cruise and field studies.
LIFE SCIENCE (5 Post) (UR-3, SC-1, OBC-1) **<u>Post Code</u>** RA-LS (One post at ACOSTI, SRI VIJAYA PURAM ISLAND)	**Doctoral Degree in Microbiology/Biotechnology/Bioinformatics** Or **M. Tech in Biotechnology / Bioinformatics** from a recognized University / National laboratories **with three years** R&D experience research, teaching, design & development after acquiring M.Tech and having at least one publication in SCI journal.	• Research / analysis works in the laboratory in characterization and Bioprospection of marine microbes/Genomic and metagenomic analysis of marine samples. • Development of Bioinformatics tools. • Participation in scientific cruise and field studies.

Name of the Post : Senior Research Fellow (SRF)
No. of Post(s) : 13 (UR-6, ST-1, SC-2, OBC-3, EWS-1**)**
Emoluments : Rs. 42,000/- + HRA
Maximum age limit : 32

Discipline / Reservation	Essential Qualification	Job Requirement
Oceanography/ Physical Oceanography **(4 Posts)** (UR-2, SC-1, OBC-1) **Post Code :** SRF-PO	• **M.Sc. in Oceanography / Physical oceanography / Atmospheric science / Meteorology / Mathematics** from a recognized university / Institute with 60% of Marks (OR) **B.E./B.Tech in Ocean Technology** from a recognized university / Institute with 60% of Marks. • And having cleared any one of the following examination. a. CSIR-UGC NET including lectureship (Assistant Professorship) and GATE b. National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, CMR, IIT, IISc, IISER, etc., • **With two years of research experience**.	• Oceanographic data collection, data processing and quality control. Analyzing meteorological and oceanographic data. Field observation activities. Preferable programming language (e.g. Python, Matlab, Ferret) • Experience in Oceanographic data analysis, Time series analysis, • Software Ferret, GRADS, ODV etc. • Programming Languages: MATLAB. • Participation in scientific cruise and field studies.
Life Science **(9 Posts)** (UR-4, ST-1, SC-1, OBC-2, EWS-1) **Post Code :** SRF-LS (One post at ACOSTI, SRI VIJAYA PURAM ISLAND)	• **M.Sc. in Marine Biology/Marine Science /Microbiology/Biotechnology/Bioinformatics** from a recognized university / Institute with 60% with two years of research experience (OR) **B.E./B.Tech in Biotechnology/ Bioinformatics**from a recognized university / Institute with 60% marks • Having cleared any one of the following examination. a. CSIR-UGC NET including lectureship (Assistant Professorship) and GATE b. National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, CMR, IIT, IISc, IISER, etc., • **With two years of research experience**	• Research and analysis works in the laboratory in marine microbes. • Algae isolation and cultureCharacterization and Bioprospection of marine microbes /Genomic and metagenomic analysis of marine samples / Marine finfish breading, larval rearing and cage culture / water quality parameters measurements. • Participation in scientific cruise and field studies.

Name of the Post : **Junior Research Fellow (JRF)**
No. of Post(s) : **5 (**UR-4, OBC-1**)**
Emoluments : **Rs.37,000/- + HRA**
Maximum age limit : **28**

Discipline / Reservation	Essential Qualification	Job Requirement
LIFE SCIENCES **(5 Posts)** (UR-4, OBC-1) <u>Post Code</u> JRF-LS (One post at ACOSTI, SRI VIJAYA PURAM ISLAND)	• **M.Sc. in Marine Biology/Marine Science /Microbiology /Biotechnology /Bioinformatics**from a recognized university / Institute with 60% marks. (OR) **B.E./ B.Tech. in Biotechnology / Bioinformatics**from a recognized university / Institute with 60% marks. • Having cleared any one of the following examination. a) CSIR-UGC NET including lectureship (Assistant Professorship) and GATE b) National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER, etc.,	• Research and analysis works in the laboratory in marine microbes. • Algae isolation and culture Characterization and Bioprospection of marine microbes /Genomic and metagenomic analysis of marine samples / Marine finfish breading, larval rearing and cage culture / water quality parameters measurements. • Participation in scientific cruise and field studies.

How to apply for the posts:

1. The online application form is available on NIOT website.
2. The candidates applying for the posts should apply on-line through web link https://www.niot.res.in/recruitment_details.php and shall download the filled in application form generated online and produce the same at the time of registration for interview/ Test on the scheduled dates as follows :

Name of the post	Discipline	Mode of Selection	Date of Recruitment
Project Scientist -III	Life Science	Interview	06-01-2025
Project Scientist -II	Mechanical	Interview	20-01-2025
	Life Science	Interview	07-01-2025
	Physical Oceanography	Interview	10-01-2025
	ECE/E&I	Interview	03-02-2025
Project Scientist – I	Mechanical	Interview	21-01-2025
	Physical Oceanography	Interview	10-01-2025
	ECE/E&I	Interview	04-02-2025
	Electrical	Interview	24-01-2025
	Civil	Interview	22-01-2025
	Life Science	Interview	07-02-2025
	Biotechnology	Interview	07-02-2025
	Microbiology	Interview	10-02-2025
	Bioinformatics	Interview	10-02-2025
	Chemistry	Interview	11-02-2025
	Coastal Management/ Remote Sensing & GIS	Interview	27-01-2025
Project Scientific Assistant	Mechanical	Written Test	23-01-2025
	ECE/E&I	Written Test	06-02-2025
	Electrical	Written Test	28-01-2025
	Civil	Written Test	22-01-2025
	Computer Science	Written Test	08-01-2025
	Life Science	Written Test	12-02-2025
	Biotechnology	Written Test	13-02-2025

	Micro-biology	Written Test	13-02-2025
	Bioinformatics	Written Test	10-02-2025
	Chemistry	Written Test	08-01-2025
Project Technician	Fitter	Trade test	09-01-2025
	Electrical	Trade test	05-02-2025
	Electronics	Trade test	05-02-2025
	Air Conditioning	Trade test	05-02-2025
Project Field Assistant	General Science	Written Test	05-02-2025
Project Junior Assistant	Admin	Written Test	27-01-2025
Research Fellow	Oceanography/ Physical Oceanography/Physics	Interview	10-01-2025
	Life Science	Interview	06-01-2025
Senior Research Fellow	Oceanography/Physical Oceanography	Interview	10-01-2025
	Life Science	Interview	07-01-2025
Junior Research Fellow	Life Science	Interview	07-01-2025

3) The candidate must read the instructions thoroughly before the filling the application forms.

4) The candidate is requested to visit NIOT website periodically to keep track of new announcements and changes, if any.

5) In case of **technical difficulty** in filling the online application form, please send an e-mail to sysadmin@niot.res.in indicating the problem faced alongwith the screen shot.

6) The candidate has to fill the application online and upload recent passport size colour photograph and scanned copies of the documents listed below:-

(i) Educational Qualification Certificates from 10th Standard onwards.

(ii) Mark List & Degree Certificate.

(iii) Experience certificates issued by the Employer.

(iv) Certificate in prescribed format (in respect of candidates seeking relaxation for Central Government Employees).

(v) Certificate in prescribed format (in respect of candidates claiming reservation under OBC/SC/ST/EWS Category).

(vi) Certificate in prescribed format (in respect of candidates seeking relaxation as Ex-servicemen &PwD category).

(vii) Copies of Publications/ Reprints of the Journal.

(viii) No objection certificate (in respect of candidates employed in Government/ autonomous Institutions and PSU).

7) The candidate has to submit their profile upon which a registration number will be generated. The applicant has to apply for the Post desired by selecting the same. On submitting the completed application, an online application Number will be provided by the system for the post applied. The candidates must download the copy of the application generated which will contain both registration number and application number for each post applied for. Candidate without application number will not be permitted to attend the selection process.

8) Request for change/correction in the Application Form will not be entertained under any circumstance. Therefore, the candidate must ensure the accuracy of the data entered and the documents uploaded.

9) Incomplete applications without uploading the required documents, photographs etc will be treated as invalid and rejected.

Terms and conditions.

1. The candidate must be a CITIZEN OF INDIA.

2. The candidate must ensure that he is eligible in all respect for that post for which he is applying and must fulfill all the eligibility criteria specified in the advertisement and if it is found not-eligible in any aspect at any stage, his candidature will be summarily rejected and cancelled without further correspondence.

3. The applicant should produce the original certificates uploaded in the on-line application at the time of interview/Joining. If original certificates are not produced or discrepancies are found in the certificates, the supporting documents or concealing of facts are noticed, the candidature will be summarily disqualified and rejected.

4. The Crucial Date for determining the possession of '**AGE AND ESSENTIAL QUALIFICATION (EQs)/EXPERIENCE**' will be the closing date for on line application. The applicants should not have exceeded the maximum age limit on the crucial date. The Date of Birth as recorded in the 10thStd/Matriculation/Transfer certificate/Certificate of Domicile/Birth Certificate issued by the competent authority will be accepted as proof of age.

5. The upper age limit in respect of the OBC/SC/ST categories and for Ex-servicemen, Person with Disabilities and other specified categories shall be relaxable in accordance with the orders issued by the Central Govt. from time to time in this regard.

6. The candidates seeking reservation and claiming relaxation must upload the required certificate in the prescribed format duly signed by the issuing authority at the time of submission of online application.

7. The prescribed educational qualifications are the minimum and mere possession of the education qualifications and requisite experience will not entitle any right to be called for test/interview or selection.

8. Applicant should ensure that he/she possess essential educational qualification and the experience in the relevant area as required to the post.

9. In case, the particular institute does not follow percentage system for awarding marks, the percentage arrived will be taken as per conversion formula mentioned in the certificate of marks. In case where conversion formula is not available, the percentage will be reckoned by multiplying the CGPA * 9.5.

10. Experience claimed by the candidate will be counted only from the date on which the candidate has acquired the minimum educational qualification required for the post. Doctorate Degree in the relevant area of research will count as 3 years' experience for Scientific Posts. In case of concurrent employment while undertaking research, no addition experience will be counted for PhD.

11. The candidates will be required to participate in scientific cruises, field visits, survey etc in ships, boats.

12. NIOT strives to have gender balance and Women candidates fulfilling the requirements are encouraged to apply for the post.

13. Candidates who are employed in Government/ autonomous Institutions and PSU should submit NOC from the employer at the time of interview/written test.

14. If the number of applications is very large, the selection committee may conduct a test for short listing the number of candidates for the Interview as the case may be, so as to restrict the number of candidates to a manageable & reasonable level. In such case, the interview will be conducted either on the same day or on the next day. The candidates have to take note of the same and arrange for their accommodation and travel.

15. The selection of the posts of Project Scientists and Research Fellows will be based on the performance in the interview. In respect of the other posts, the selection will be based on the marks obtained in the written test/Trade test.

16. No TA/DA will be paid towards attending the Interview / Written examination.

17. The posts advertised are temporary in nature and the appointment will be contract basis for fixed tenure which is co-terminus with the project. The completion of tenure of contract will not confer right for regularization or permanency in NIOT.

18. The number of posts mentioned in the advertisement are tentative and may increase or decrease depending upon the project requirements/sanction by Ministry of Earth Sciences and other sponsoring agencies. NIOT reserves the right not to fill up the post without assigning any reasons what so ever.

19. Canvassing in any form will be treated as disqualification.

20. Any unsolicited communication regarding this advertisement is strictly prohibited.

21. 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.

Last date and Time for online applications : 23.12.2024 at 17.30 IST