APPOINTMENT

भारतीय राष्ट्रीय महासागर सूचना सेवा केन्द्र
(पृथ्वी विज्ञान मंत्रालय, भारत सरकार के अधीन एक स्वायत्तशासी संगठन)

Indian National Centre for Ocean Information Services (INCOIS)
(An autonomous body under Ministry of Earth Sciences (MoES), Govt. of India)

हैदराबाद / Hyderabad- 500090

भारत सरकार द्वारा वर्ष **2021-26** की अवधि के दौरान अनुमोदित की जाने वाली प्रस्तावित परियोजनाओं के लिए निम्नलिखित अस्थायी पदों के एवज में संविदा आधार पर भर्ती के लिए पात्र भारतीय नागरिकों से ऑनलाइन आवेदन आमंत्रित किए जाते हैं। इन पदों पर भर्ती प्रारंभ में एक वर्ष की अवधि के लिए होगी तथा इसे मार्च **2026** तक वर्ष-दर-वर्ष आधार पर या परियोजना के समाप्त होने, जो भी पहले हो, तक बढ़ाया जा सकेगा। अस्थायी पदों का विवरण नीचे दिया गया है:

Online applications are invited from eligible Indian Nationals for engagement on contract basis against the following temporary positions in the projects to be approved for the period 2021 – 26 by Govt. of India. The positions will be initially for a period of one year, extendable based on performance/project requirement on year-to-year basis till March 2026 or co-terminus with the projects whichever is earlier. The details of the contract positions are given below:

क्रम संख्या Sl. No.	पद का नाम Name of the position	आरक्षण Reservation					पदों की संख्या No. of Posts	आयु सीमा Age limit
		अनारक्षित श्रेणी UR	अनुसूचित जाति SC	अनुसूचित जनजाति ST	अन्य पिछड़ा वर्ग OBC	आर्थिक रूप से कमज़ोर वर्ग EWS		
1.	परियोजना वैज्ञानिक III Project Scientist III	9	--	--	--	--	9	45 yrs.
2.	परियोजना वैज्ञानिक II Project Scientist II	23	--	--	--	--	23	40 yrs.
3.	परियोजना वैज्ञानिक I Project Scientist I	26	9	4	15	5	59	35 yrs.
4.	परियोजना सहायक Project Assistant	17	5	2	9	3	36	50 yrs.
5.	परियोजना वैज्ञानिक प्रशासनिक सहायक Project Scientific Administrative Assistant	5	--	--	1	--	6	50 yrs.
6.	विशेषज्ञ / परामर्शक Expert / Consultant (वैज्ञानिक-4) /(प्रशासनिक-1) (Scientific-4)/(Admin -1)	5	--	--	--	--	5	65 yrs.

पदों की संख्या अनिश्चित है तथा वास्तविक आवश्यकता एवं भारत सरकार के आदेशों के आधार पर इनमें अंतर हो सकता है। पद, आरक्षण, समेकित परिलब्धियां, शैक्षणिक अर्हताएं, आयु, अनुभव और अनुबंध पदों के उत्तरदायित्व, आवेदन पत्र के प्रारूप तथा अन्य सामान्य शर्तों की जानकारी INCOIS की वेबसाइट www.incois.gov.in पर "Vacancies" के तहत उपलब्ध है।

The number of positions is tentative and is likely to vary depending upon actual requirement and orders of Government of India. Details about the positions, reservation, consolidated emoluments, academic qualifications, age, experience and responsibilities of the contract positions, format of application and other general conditions are available at INCOIS website www.incois.gov.in under 'Vacancies'.

ऑनलाइन आवेदन जमा करने की अंतिम तिथि 09 सितंबर, 2022 (भारतीय समयानुसार शाम 05:00 बजे तक)।
Last date for submission of Online application is **September 09, 2022 (upto 05:00 p.m. IST)**.

निदेशक, इंकॉइस
Director, INCOIS
Advt. No. INCOIS/RMT/04/2022
विज्ञापन सं: इंकॉइस/आर.एम.टी./04/2022

Indian National Centre for Ocean Information Services (INCOIS)
An Autonomous Body under the Ministry of Earth Sciences (MoES), Govt of India
"Ocean Valley", Pragathi Nagar (BO), Nizampet (SO), Hyderabad, Telangana - 500090

Advt. No. INCOIS/RMT/04/2022

The Indian National Centre for Ocean Information Services (INCOIS), an Autonomous Body under the Ministry of Earth Sciences (MoES), Govt. of India is a knowledge and information technology enterprise for the oceanic realm, pursuing focused programmes in the areas of Ocean Observations, Ocean Modeling and Ocean Information & Advisory services including Tsunami Early Warning. More details about INCOIS are available at www.incois.gov.in.

Online applications are invited from eligible Indian Nationals for engagement on contract basis against the following temporary positions in the projects to be approved for the period 2021- 26 by Govt. of India. The positions will be initially for a period of one year, extendable based on performance/project requirement on year-to-year basis till March 2026 or co-terminus with the projects whichever is earlier. Details about the positions, reservation, consolidated emoluments, academic qualifications, age, experience, and responsibilities of the contract positions, format of application and other general conditions are given below:

Sl. No.	Name of the position	Reservation					Total
		UR	SC	ST	OBC	EWS	
1.	Project Scientist III	9	--	--	--	--	**9**
2.	Project Scientist II	23	--	--	--	--	**23**
3.	Project Scientist I	26	9	4	15	5	**59**
4.	Project Assistant	17	5	2	9	3	**36**
5.	Project Scientific Administrative Assistant	5	--	--	1	--	**6**
6.	Expert / Consultant (Scientific-4; Admin-1)	5	--	--	--	--	**5**

Category : Project Scientist – III
Post Code: 01   **Name of the Post: Project Scientist – III**   **No. of Posts: 07 (Seven)**   **Age Limit: 45 Years**   **Consolidated Monthly Emoluments: Rs. 78,000 + HRA.**

Essential Qualifications & Experience:	:	Masters degree (M.Sc., M.Tech., M.Sc. (Tech.)) in Oceanic Sciences/ Atmospheric Sciences / Climate Sciences / Marine Sciences / Meteorology / Oceanography / Physical Oceanography / Physics / Mathematics / Zoology with Fisheries / Fishery Sciences [or] Masters degree in Engineering or Technology in Mechanical /Environmental /

		Chemical/ Electronics & Communication / Intrumentation [or] Bachelors degree in Engineering or Technology in Mechanical / Environmental / Chemical from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.

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AND

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7(Seven) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.

- Ocean observations (in situ, Remote Sensing, ship based) including testing, assembling, calibration, configuration, deployment, recovery, and data analysis of oceanographic instruments such as Deep Sea Glider, Argo Floats, Wave Drifters, Moorings, Tide Gauges, CTD, uCTD, VMP, Lagrangian float, ADCP, ECFS, DCFS, ASIMET, Radiometers, Radiosonde, process studies, laboratory analysis of water samples, etc.

- Modelling and forecasting of Ocean/Atmosphere/Sea-ice/Earth System Processes for Ocean General Circulation (MOM, ROMS, HyCOM), Climate, Ocean Ecosystem/ Biogeochemistry (FVCOM, ERSEM, COBALT, TOPAZ etc), Waves (WWIII, SWAN), Cyclone (HWRF), Storm Surges (ADCIRC), Tsunamis (TUNAMI), Tides, Oil Spills (GNOME), Fisheries (ECOPATH, ECOSIM), Primary Productivity, Coastal processes etc, including Data Assimilation (LETKF, 3DVAR, Hybrid etc), model porting, model parametrization, fine tuning and installation in HPC environment for R&D and providing operational services.

- Data processing, analysis and visualization of high-resolution ocean/atmosphere /climate (CMIP5/CMIP6), bio-optical, physico-chemical & fisheries data, Satellite data etc using data analysis software (Ferret, python, GRADS, ODV, SeaDAS etc.,), programming languages (Matlab, Python, R, C/C++, Fortran, Shell scripting etc.), AI&ML applications, Ensemble techniques, GIS Applications (Arc Engine, ArcGIS Server, open-source GIS tools etc.), Operating Systems (LINUX / UNIX, Windows) , Data formats (NetCDF, HDF, GRIB, GrADS etc).

- Teaching at Graduate or Post Graduate level / training in the fields of Atmospheric Sciences / Oceanic Sciences /Marine Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography/ Fisheries / Chemical Oceanography / Ocean Technology.

Desirable Qualifications:	:	Ph.D. in Physical Oceanography /Marine Sciences/ Atmospheric Sciences/Climate Sciences/Meteorology/ Fishery Sciences.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • In-situ and remote sensing observations. • Ocean/Atmosphere/ Earth System modeling & Data Assimilation. • Data processing, Quality control and analysis of in-situ, remote sensing and model data. • Enhancement of ocean information and advisory services related to Marine ecosystem (PFZ, Species Specific Forecast, HABs, Coral Bleaching, Primary Productivity), Ocean Climate Change indicators (Sea level, cyclone intensity/frequency, extreme waves/erosion, etc), Ocean State Forecast (Wave, Swell, Oil Spill, currents, rip currents, Water Quality, search and rescue, optimal ship routing), Oceanogenic disasters (Tsunami, Storm Surge, High Waves), Coastal Geo-Spatial (Vulnerability/Risk Assessments, Ocean Data (Digital Ocean, Deep learning), etc. • Work onboard boats/ships at sea. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 02
Name of the Post: Project Scientist – III
No. of Posts: 01 (One)
Age Limit: 45 Years
Consolidated Monthly Emoluments: Rs. 78,000 + HRA

Essential Qualifications & Experience:	:	Masters degree (M.Sc., M.Tech.,) in Computers/Information Technology [or] Masters degree in Engineering or Technology in Computers/Information Technology [or] Bachelors degree in Engineering or Technology in Computers/Information Technology from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. **AND** **7 (Seven) years of experience in one or more of the following areas:** • System Administration, Storage Administration and Network Management with hands-on experience in the

		areas of System Administration, Network management, Storage Management.
		• IT Support, Managing Windows, Linux, or Mac systems, Upgrading, installing, and configuring application software and computer hardware, Troubleshooting and providing technical support to employees, Creating and managing system permissions and user accounts.
		• Performing regular security tests and security monitoring, Maintaining networks and network file systems, Managing the secure and efficient storage of an organization's electronic data.
Desirable Qualification:	:	Ph.D. in Computer Science/Information Technology. / Certification in System Administration, Storage Administration, Network Management
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • System Administration, Storage Administration, Network administration management and administration, • Application software development, • IT support, web/cyber security, and database management. • Operations and maintenance of ICT infrastructure. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 03
Name of the Post: Project Scientist – III
No. of Posts: 01 (One)
Age Limit: 45 Years
Consolidated Monthly Emoluments: Rs. 78,000 + HRA

Essential Qualifications & Experience:	:	Masters degree (M.Sc., M.Tech., M.Sc. (Tech.)) in Science Communication/ Oceanic Sciences/ Atmospheric Sciences / Climate Sciences / Marine Sciences / Meteorology / Oceanography / Physical Oceanography / Physics / Mathematics / Zoology with Fisheries / Fishery Sciences [or] Masters degree in Engineering or Technology in Mechanical /Environmental / Chemical [or] Bachelors degree in Engineering or Technology in Mechanical / Environmental / Chemical from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. **AND**

		7 (Seven) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.
		• International relations, consultancy, training and coordination of activities related to intergovernmental bodies.
		• Scientific communication, Media (print, electronic and social), public affairs & public relations, science policy work.
		• Scientific research work proven through reputed publications/ popular articles in magazines, news papers etc.
Desirable Qualification:	:	Ph.D. in Science Communications/Physical Oceanography /Marine Sciences / Meteorology/ Atmospheric Sciences/ Physics.
Responsibilities	:	**Responsibilities will include one or more of the following activities:**
		• Public Relations, popularizing the scientific activities of INCOIS through print, electronic and social media.
		• Activities related to intergovernmental bodies (IOC, IIOE-2, IOGOOS, SIBER, IOR-DCC, IORA Centre of Excellence, etc.), coordinate the bilateral, multi-lateral collaborations, etc.
		• Support in ITCOocean Training activities, workshops, webinars, etc
		• R&D and teaching activities.
		• 24/7 shift operations.
		Any other scientific/technical job that may be assigned from time to time.

Category : Project Scientist – II

Post Code: 04 Name of the Post: Project Scientist – II No. of Posts: 14 (Fourteen) Age Limit: 40 Years Consolidated Monthly Emoluments: Rs. 67,000 + HRA

Essential Qualifications & Experience:	:	Masters Degree (M.Sc., M. Tech., M.Sc.(Tech.)) in Atmospheric Sciences / Oceanic Sciences /Marine Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography/ Physics/ Mathematics / Chemistry / Zoology / Chemical Oceanography / Hydrochemistry / Environmental Sciences / Ocean Technology / Earth system science & Technology or Bachelor's degree in Engineering or Technology in Mechanical/ Electronics & Communication /

| | | Intrumentation from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.

AND

3 (three) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.

- Ocean observations (in situ, Remote Sensing, ship based) including testing, assembling, calibration, configuration, deployment, recovery, and data analysis of oceanographic instruments such as Deep Sea Glider, Argo Floats, Wave Drifters, Moorings, Tide Gauges, CTD, uCTD, VMP, Lagrangian float, ADCP, ECFS, DCFS, ASIMET, Radiometers, Radiosonde, process studies, laboratory analysis of water samples, etc.
- Modelling and forecasting of Ocean/Atmosphere/Sea-ice/Earth System Processes for Ocean General Circulation (MOM, ROMS, HyCOM), Climate, Ocean Ecosystem/ Biogeochemistry (FVCOM, ERSEM, COBALT, TOPAZ etc), Waves (WWIII, SWAN), Cyclone (HWRF), Storm Surges (ADCIRC), Tsunamis (TUNAMI), Tides, Oil Spills (GNOME), Fisheries (ECOPATH, ECOSIM), Primary Productivity, Coastal processes etc, including Data Assimilation (LETKF, 3DVAR, Hybrid etc), model porting, model parametrization, fine tuning and installation in HPC environment for R&D and providing operational services.
- Data processing, analysis and visualization of high-resolution ocean/atmosphere /climate (CMIP5/CMIP6), bio-optical, physico-chemical & fisheries data, Satellite data etc using data analysis software (Ferret, python, GRADS, ODV, SeaDAS etc.,), programming languages (Matlab, Python, R, C/C++, Fortran, Shell scripting etc.), AI&ML applications, Ensemble techniques, GIS Applications (Arc Engine, ArcGIS Server, open-source GIS tools etc.), Operating Systems (LINUX / UNIX, Windows) , Data formats (NetCDF, HDF, GRIB, GrADS etc).
- Teaching at Graduate or Post Graduate level / training in the fields of Atmospheric Sciences / Oceanic Sciences /Marine Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography/ Fisheries / Chemical Oceanography / Ocean Technology. |

Desirable Qualification:	:	Ph.D. in Oceanography/Atmospheric Sciences / Physical Oceanography / Mathematics / Physics / Computational Engineering or equivalent.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • In-situ and remote sensing observations. • Ocean/Atmosphere/ Earth System modeling & data assimilation. • Data processing, Quality control and analysis of in-situ, remote sensing and model data. • Enhancement of ocean information and advisory services related to Marine ecosystem (PFZ, Species Specific Forecast, HABs, Coral Bleaching, Primary Productivity), Ocean Climate Change indicators (Sea level, cyclone intensity/frequency, extreme waves/erosion, etc), Ocean State Forecast (Wave, Swell, Oil Spill, currents, rip currents, Water Quality, search and rescue, optimal ship routing), Oceanogenic disasters (Tsunami, Storm Surge, High Waves), Coastal Geo-Spatial (Vulnerability/Risk Assessments, Ocean Data (Digital Ocean, Deep learning), etc. • Work onboard boats/ships at sea. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 05
Name of the Post: Project Scientist – II
No. of Posts: 01 (One)
Age Limit: 40 Years
Consolidated Monthly Emoluments: Rs. 67,000 + HRA

Essential Qualifications & Experience:	Masters Degree (M.Sc., M. Tech., M.Sc.(Tech.)) or B. Tech in Ocean Engineering/Naval Architecture/Mechanical Engineering from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. **AND** **3 (three) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • Modelling and forecasting of Ocean/Atmosphere/Sea-ice/Earth System Processes for Ocean General Circulation (MOM, ROMS, HyCOM), Climate, Ocean Ecosystem/ Biogeochemistry (FVCOM, ERSEM, COBALT, TOPAZ

		etc), Waves (WWIII, SWAN), Cyclone (HWRF), Storm Surges (ADCIRC), Tsunamis (TUNAMI), Tides, Oil Spills (GNOME), Fisheries (ECOPATH, ECOSIM), Primary Productivity, Coastal processes etc, including Data Assimilation (LETKF, 3DVAR, Hybrid etc), model porting, model parametrization, fine tuning and installation in HPC environment for R&D and providing operational services. • Experience with optimal ship routing or optimal routing problems and experience in operational ocean forecasting and impact-based forecasting systems.
Desirable Qualification:		Ph.D. in Ocean Engineering/Naval Architecture/ Mechanical Engineering/Physical Oceanography /Mathematics/Physics /Oceanography/ Computational Engineering or equivalent
Responsibilities		**Responsibilities will include one or more of the following activities:** • Development of Optimal ship routing methodology. • Operational implementation of optimal ship routing service at INCOIS by constantly interacting with shipping industry and understanding user requirements and developing user friendly delivery chain. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.
Post Code: 06 **Name of the Post: Project Scientist – II** **No. of Posts: 02 (Two)** **Age Limit: 40 Years** **Consolidated Monthly Emoluments: Rs. 67,000 + HRA.**		
Essential Qualifications & Experience:	:	Master of Fishery Science (M.F.Sc.) in Fisheries Resources Management or Post Graduate Degree (M.Sc., M. Tech.) in Biological Oceanography / Marine Biology or its equivalent from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. **AND** **3 (three) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • Remote Sensing and GIS for Fisheries Management, Fish Stock Assessment, fishery modeling (habitat suitability models, probabilistic fishery studies, ecosystem models, etc.), fishery capture technologies, R&D in marine

		fisheries, satellite oceanography, primary productivity modeling, etc.
		• Scientific programing languages (Fortran, Python & C.) and data analysis software like FERRET, MATLAB, GRAD, GMT etc.
		• Usage of field and lab equipment and experience in cruise participation onboard boats/ships.
Desirable Qualification:	:	Ph.D. in Marine Biology / Biological Oceanography/Fishery Sciences
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • R & D (species specific fishery services, probabilistic fishery advisories, fish habitat modeling studies, Fishery resource management, fish stock assessment, ecosystem modeling, etc) and Teaching in marine fishery and their applications. • Participation in Primary Productivity related R&D, and development of PP based PFZ advisories. • Generation & dissemination of operational fishery services. • Collection & analysis of in-situ time series data from estuarine and marine environments. • Usage of remotely sensed data for fisheries applications. • Participation in cruises, user interaction workshops, etc. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 07
Name of the Post: Project Scientist – II
No. of Posts: 01 (One)
Age Limit: 40 Years
Consolidated Monthly Emoluments: Rs. 67,000 + HRA

Essential Qualifications & Experience:	:	Masters Degree (M.Sc., M. Tech., M.Sc.(Tech.)) in Geophysics/Marine Geophysics / Marine Geology / Geology from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. **AND** **3 (three) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.**

		• Handling Broadband/GNSS-GPS/ SMA observatories and its data analysis. • Instrument testing, assembly, calibration, and configuration of GNSS and SMA observatories. • Data analysis software (e.g., Matlab, Fortran, Python, GAMIT/GLOBK, Bernese, ObsPy, etc.,)
DesirableQualifications	:	PhD in Geophysics / Marine Geophysics / Geodesy, Seismology with mathematics background/ Computational Geophysics with Geology Background.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • GNSS-GPS Real time data processing, • SMA Data Processing, • Broadband Seismic data processing, • Geophysical Inversion formulations. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 08
Name of the Post: Project Scientist – II
No. of Posts: 04 (Four)
Age Limit: 40 Years
Consolidated Monthly Emoluments: Rs. 67,000 + HRA

Essential Qualifications & Experience:	:	Master's degree (MSc, M.Tech) in Computers/Information Technology [or] Master's degree in Engineering or Technology in Computers/Information Technology [or] Bachelor's degree in Engineering or Technology in Computers/Information Technology from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. <center>**AND**</center>**3 (three) years of experience in one or more of the following areas:** • System Administration, Storage Administration and Network Management. Knowledge in Linux, UNIX, Windows environments including shell scripting. • Developing software applications using Java, J2EE, Struts, Spring, Spring Boot and REST API, proficiency in HTML5, Bootstrap, JavaScript, Angular JS, ReactJS, TypeScript, and jQuery, proficiency in databases like IBM DB2, Oracle and MySQL, PostgreSQL, expertise in the Application & Database Server Management, Python, R,

		Fortran for research data management. GIS development & integration using open source GIS tools, experience in Python, experience in Content Management Software (CMS), PHP. • AI/ML applications, specialized in clustering / classification / association mining algorithms. • Automation of end-to-end data management activities, including quality control, and analysis of in-situ and remote sensing data, data archival, etc.).
DesirableQualifications	:	• Certification in System Administration, Storage Administration, Network Management • Ph.D. in Computer Science/Computer Engineering / Oceanography/Marine Science/ Atmospheric Sciences.
Responsibilities	:	**Responsibilities will include one or more of the following:** • System Administration, Network management, Storage Management, IT Support. • Operations and maintenance of ICT infrastructure. • Handling / Management of the data (including quality control, and analysis of in-situ and remote sensing data, data archival, etc.). • Design, develop and maintain application software (web, standalone applications, dashboards, mobile apps, etc.) required for various projects at INCOIS using Java/2EE Technologies, Phython, R, Fortan. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 09
Name of the Post: Project Scientist - II
No. of Posts: 01 (One)
Age Limit: 40 Years
Consolidated Monthly Emoluments: Rs. 67,000/- + HRA

Essential Qualification& Experience:		Masters Degree (MSc., M.E/M.Tech., MSc (Tech)) in Geomatics / Geoinformatics/ Remote Sensing/ GIS/ Geospatial Sciences (or) M.Sc in Geomatics / Geoinformatics/ Remote Sensing / GIS/Geospatial Sciences (or) its equivalent from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. **AND** **3 (three) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.**

	• Teaching/Research in the field of marine and coastal geospatial/Remote Sensing/GIS applications. • Remote sensing and data analysis using softwares (ARC-GIS, ARC-View, QGIS etc) and programming languages (eg: Matlab, C, Fortran etc.)
Desirable Qualifications:	Ph.D. in Geomatics / Geoinformatics/ Remote Sensing/ GIS/ Geospatial Science or similar fields.
Responsibilities	**Responsibilities will include one or more of the following activities:** • R & D and Teaching in Remote sensing and Geographical Information Systems and their applications. • Assist in development of GIS based solutions in operational services as well as to support in R&D activities. • Assist in enhancing ocean information and advisory services related to Marine ecosystem, Ocean-genic disasters, Coastal Geo-Spatial, etc. Any other scientific/technical jobs that may be assigned from time to time.

Category: Project Scientist – I

Post Code: 10
Name of the Post: Project Scientist – I
No. of Posts: 31 (Thirty One)
Age Limit: 35 Years
Consolidated Monthly Emoluments: Rs. 56,000 + HRA

Essential Qualifications:	:	Masters Degree (M.Sc., M. Tech., M.Sc. (Tech.)) in Atmospheric Sciences / Oceanic Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography / Physics / Chemistry / Hydrochemistry / Chemical Oecanography / Mathematics / Environmental Sciences/Ocean Technology or Bachelor's degree in Engineering or Technology in Mechanical/ Electronics & Communication/ Instrumentation or its equivalent from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	Ph.D. in Physical / Chemical Oceanography / Marine Sciences / Meteorology/ Atmospheric Sciences/ Climate sciences. **Experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.**

		• Ocean observations (in situ, Remote Sensing, ship based) including testing, assembling, calibration, configuration, deployment, recovery, and data analysis of oceanographic instruments such as Deep Sea Glider, Argo Floats, Wave Drifters, Moorings, Tide Gauges, CTD, uCTD, VMP, Lagrangian float, ADCP, ECFS, DCFS, ASIMET, Radiometers, Radiosonde, process studies, laboratory analysis of water samples, etc. • Modelling and forecasting of Ocean/Atmosphere/Sea-ice/Earth System Processes for Ocean General Circulation (MOM, ROMS, HyCOM), Climate, Ocean Ecosystem/ Biogeochemistry (FVCOM, ERSEM, COBALT, TOPAZ etc), Waves (WWIII, SWAN), Cyclone (HWRF), Storm Surges (ADCIRC), Tsunamis (TUNAMI), Tides, Oil Spills (GNOME), Fisheries (ECOPATH, ECOSIM), Primary Productivity, Coastal processes etc, including Data Assimilation (LETKF, 3DVAR, Hybrid etc), model porting, model parametrization, fine tuning and installation in HPC environment for R&D and providing operational services. • Data processing, analysis and visualization of high-resolution ocean/atmosphere /climate (CMIP5/CMIP6), bio-optical, physico-chemical & fisheries data, Satellite data etc using data analysis software (Ferret, python, GRADS, ODV, SeaDAS etc.,), programming languages (Matlab, Python, R, C/C++, Fortran, Shell scripting etc.), AI&ML applications, Ensemble techniques, GIS Applications (Arc Engine, ArcGIS Server, open-source GIS tools etc.), Operating Systems (LINUX / UNIX, Windows) , Data formats (NetCDF, HDF, GRIB, GrADS etc).
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • In-situ and remote sensing observations. • Ocean/Atmosphere/ Earth System modeling & data assimilation. • Data processing, Quality control and analysis of in-situ, remote sensing and model data. • Enhancement of ocean information and advisory services related to Marine ecosystem (PFZ, Species Specific Forecast, HABs, Coral Bleaching, Primary Productivity), Ocean Climate Change indicators (Sea level, cyclone intensity/frequency, extreme waves/erosion, etc), Ocean State Forecast (Wave, Swell, Oil Spill, currents, rip

		currents, Water Quality, search and rescue, optimal ship routing), Oceanogenic disasters (Tsunami, Storm Surge, High Waves), Coastal Geo-Spatial (Vulnerability/Risk Assessments, Ocean Data (Digital Ocean, Deep learning), etc. • Work onboard boats/ships at sea. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 11
Name of the Post: Project Scientist – I
No. of Posts: 02 (Two)
Age Limit: 35 Years
Consolidated Monthly Emoluments: Rs. 56,000 + HRA

Essential Qualifications:	:	Masters Degree (M.Sc., M. Tech., M.Sc. (Tech.)) in Physical Oceanography/Ocean Engineering/Naval Architecture/Mechanical/ Physics or B. Tech in Ocean Engineering/Naval Architecture/Mechanical Engineering from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	Ph.D. in Ocean Engineering/Naval Architecture/Mechanical Engineering/Physical Oceanography or any closely related subject. **Experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • Application of Artificial Intelligence or Machine Learning Methods to Physical Oceanography/Earth System Science. • Handling of large volume of data acquisition, data processing (in-situ, remote sensing, climatology, etc.) and analysis with conversant with data format like NetCDF, HDF, GRIB, GrADS etc. • Data analysis software (Ferret, Python, GRADS, GMT, ODV etc.), programming languages (Matlab, Python, R, C, C++, Fortran, etc.), AI&ML applications, Ensemble techniques.

Responsibilities	:	**Responsibilities will include one or more of the following activities:**
		• Improvement of existing search and rescue aid tool system.
		• Development of AI-ML techniques for Ocean State Forecasting Services.
		• 24/7 shift operations.
		• R&D and teaching activities.
		Any other scientific/technical job that may be assigned from time to time.

Post Code: 12
Name of the Post: Project Scientist – I
No. of Posts: 01 (One)
Age Limit: 35 Years
Consolidated Monthly Emoluments: Rs. 56,000 + HRA

Essential Qualifications:	:	Masters Degree (M.Sc., M. Tech., M.Sc. (Tech.)) in Physical Oceanography or Physics or Ocean Technology or its equivalent from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	• Master's degree in business administration from a recognized university with at-least 60% marks.
		• Two years' experience in business development in oceanographic or fishery industry. Experience with computers and statistical data analysis.
Responsibilities	:	**Responsibilities will include one or more of the following activities:**
		• Business development (including commercialization, marketing, Sales, etc.) and user engagement
		• Interact with relevant industries and identity requirements of industries with regard to existing products and services of INCOIS.
		• Assess demand for new product and services.
		• Carryout systematic analysis of the data collected and identify areas of future focus by INCOIS.
		• 24/7 shift operations.
		• R&D and teaching activities.
		Any other scientific/technical job that may be assigned from time to time.

Post Code: 13		
Name of the Post: Project Scientist – I		
No. of Posts: 04 (Four)		
Age Limit: 35 Years		
Consolidated Monthly Emoluments: Rs. 56,000 + HRA		

Essential Qualifications:	:	Master of Fishery Science (M.F.Sc.) in Fisheries Resources Management or Post Graduate Degree (M.Sc., M. Tech., M.Sc. (Tech.)) in Biological Oceanography or Marine Biology or Fisheries or Zoology from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	PhD in Fisheries / Biological Oceanography / Marine Biology / Remote Sensing /GIS application to Fisheries. **Experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • Habitat studies of economically important fish species. • Remote Sensing and GIS for Fisheries Management, Fish Stock Assessment, fishery modeling (habitat suitability models, ecosystem models, etc.), fishery capture technologies, • R&D in marine capture fisheries. • Use of field equipments (physico-chemical and bio-optical instruments / sampling gears), physico-chemical and bio-optical sample collection, laboratory equipments for onboard analysis at sea and in land.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Fishery data analysis and understanding linkages with historical PFZ advisories provided by INCOIS. Develop insights on species specific preferences to the proxies used for PFZ advisories and take-up research to identify potential new proxies for fishery forecasts. • Develop understanding on links between ocean productivity and fisheries. Develop understanding on primary productivity changes in the Indian waters using estimates of marine primary productivity from satellite-derived phytoplankton absorption data. • Enhancement of ocean information and advisory services related to Marine ecosystem, etc. • R & D in marine fisheries applications, generation & dissemination of operational forecast/advisories, collection & analysis of in-situ time series data from

		estuarine and marine environments, usage of remotely sensed data for fisheries applications, etc.
		• Fishery Resource Management, fish sock assessment, fish habitat suitability modeling, ecosystem modeling, participation in cruises, user interaction workshops, etc. and any other scientific/technical jobs that may be assigned from time to time.
		• Work on 24x7 basis to routinely carry out the day-to-day activities for successfully running of the Operational Ocean Services.
		• R&D and teaching activities.
		Any other scientific/technical jobs that may be assigned from time to time.

Post Code: 14
Name of the Post: Project Scientist – I
No. of Posts: 03 (Three)
Age Limit: 35 Years
Consolidated Monthly Emoluments: Rs. 56,000 + HRA

Essential Qualifications:	:	Masters Degree (M.Sc., M.Tech., M.Sc.(Tech.)) in Geophysics / Marine Geophysics / Marine Geology / Earth Sciences or its equivalent from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	PhD in Geophysics/ Geodesy, Seismology with mathematics background/ Computational Geophysics with Geology Background. **Experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • Seismological data processing, analysis, geophysics related studies, tsunami sciences etc. • Handling GNSS and SMA observatories and data interpretation • Instrument testing, assembly, calibration, and configuration of GNSS and SMA observatories • Tsunami's detection and analysis of seismic events and Tsunami modelling, • R&D and teaching activities.

Responsibilities	:	**Responsibilities will include one or more of the following activities:**
		• Take up R&D in Atypical Tsunami leading to operational services • Carry out Focused Research on Volcano eruption, flank collapse /Landslide /Meteo tsunamis. • Inundation modeling of vulnerable Indian coasts. Probabilistic Tsunami Hazard assessment. Earthquake source studies and computational geophysics. • Seismic data analysis for improving the earthquake source parameters and provide timely advisories in operational services. • R&D support to the operations • Supporting tsunami advisories, scientific and technical documentation. • Maintenance and management of GNSS and SMA network installed at Andaman and Nicobar Is. • 24X7 operational activities • R&D and teaching activities. Any other scientific/technical jobs that may be assigned from time to time.

Post Code: 15
Name of the Post: Project Scientist – I
No. of Posts: 04 (Four)
Age Limit: 35 Years
Consolidated Monthly Emoluments: Rs. 56,000 + HRA

Essential Qualifications:	:	Masters Degree (M.Sc., M.E., M. Tech., M.Sc. (Tech.)) in Geo-Informatics / Remote Sensing & GIS/ Geospatial sciences & technologies / Spatial Information Technology or its equivalent from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	Ph.D. in Geomatics / Geoinformatics/ Remote Sensing/ GIS/ Geospatial Science or similar fields. **Experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • Remote sensing & GIS tools (including open-souce geospatial tools) for executing projects related to coastal multi-hazard vulnerability assessments, assessment of coral bleaching, harmful algal blooms, spatial data analysis and validation, machine learning with earth observations data.

		• Remote sensing data analysis and image processing using software's such as PostGIS, ARC-GIS, ARC-View, QGIS, ERDAS Imagine, ENVI, SeaDAS, etc. and programming languages (eg: Matlab, C, C++, Python, R, Fortran etc.) for handling remote sensing data. • GIS Application development (Arc Engine, ArcGIS Server, open source GIS tools etc.), spatial database management (Post GIS, etc.)
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Work (Develop, integrate, validate and improve) on Coral bleaching alerts and Algal Bloom Information services and other Geospatial applications • Enhancement of ocean information and advisory services related to Marine ecosystem, Ocean State Forecast, Oceanogenic disasters, Coastal Geo-Spatial, Ocean Data etc. • Field visits and validation of remote sensing based of Multi-hazard Vulnerability mapping of Indian coasts. • Work on Coral bleaching alert and Algal Bloom Information services and other Geospatial applications. Assess species wise bleaching response of corals to marine heat waves through field visits. • Remote Sensing data acquisition, processing and data dissemination and management. • Contribute to consultancy projects taken up by INCOIS time to time. • Work in shifts on 24x7 basis to routinely carry out the day-to-day activities for successfully running of the Operational Ocean Services. • R&D and supporting activities, scientific and technical documentation. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical jobs that may be assigned from time to time.

Post Code: 16		
Name of the Post: Project Scientist – I		
No. of Posts: 01 (One)		
Age Limit: 35 Years		
Consolidated Monthly Emoluments: Rs. 56,000 + HRA		

Essential Qualifications:	:	Masters Degree (M.Sc., M. Tech., M.Sc. (Tech.)) in Physical/ Chemical Oceanography/Marine Science or Physics or Ocean Technology from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent .
Desirable Qualifications & Experience:	:	**Experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • Analysis and interpretation of biogeochemical data and its quality control, analytical experience in marine primary productivity and phytoplankton taxonomy, and use of instruments viz. nutrient auto analyzer, IRMS, HPLC, etc. • Handling ocean colour satellite data, proficiency in programing language/data analysis software's such as SeaDAS, Ferret, FORTRAN/C/python/MATLAB and shell script. • Analysis of oceanographic forecast data using AI/ML techniques for improvement of forecast quality.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Monitoring and troubleshooting of ongoing satellite and autonomous buoy based marine ecosystem services of INCOIS. • Assist in analysis and data interpretation, report preparation using the long-term bio geochemical-optical data records of INCOIS. • R & D activities towards the development of new products/improvement of existing ocean colour products (HAB)/ ecosystem services. • Improvement of various forecast products such as currents, waves, SST, SSS, SLA and Mixed Layer depth using AL/ML Techniques. • 24/7 shift operations. • R&D and teaching activities Any other scientific/technical jobs that may be assigned from time to time.

Post Code: 17 Name of the Post: Project Scientist – I No. of Posts: 07 (Seven) Age Limit: 35 Years Consolidated Monthly Emoluments: Rs. 56,000 + HRA.		
Essential Qualifications:	:	Master's degree (MSc., M.Tech) in computers / Information Technology [or] Bachelor's degree in Engineering or Technology in Computers / Information Technology from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	Ph.D. in Computer Science/Information Technology. **Experience in one or more of the following areas:** • System Administration, Storage Administration and Network Management. • Developing software applications using Java, J2EE, Struts, Spring, Spring Boot and REST API, proficiency in HTML5, PHP, Web GIS, Bootstrap, JavaScript, Angular JS, ReactJS, TypeScript, and jQuery, proficiency in databases like IBM DB2, Scientific Data management using using Oracle and MySQL, Postgre SQL., expertise in the Application & Database Server Management, working knowledge in Linux, UNIX, Windows environments including shell scripting, experience in GIS development & integration using open source GIS tools, experience in Python, R, Fortran, Programming experience with AL/ML tools & Techniques, experience in Content Management Software (CMS). • Automation of end-to-end data management activities.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Enhancement of ocean information and advisory services by application software development, visualization tools, mobile app, Shell scripting, porting of the numerical models, their data visualization, web-interfaces, data analytics tools, etc • Work on 24x7 basis to routinely carry out the day-to-day activities for successfully running of the Operational Ocean Services. • Design, develop and maintain application software required for various projects at INCOIS • End-to-end data management activities of in-situ and remote sensing data. • R & D activities, Teaching and documentation. • 24/7 shift operations.

		Any other scientific/technical jobs that may be assigned from time to time.
Post Code: 18 **Name of the Post: Project Scientist – I** **No. of Posts: 03 (Three)** **Age Limit: 35 Years** **Consolidated Monthly Emoluments: Rs. 56,000 + HRA.**		
Essential Qualifications:	:	Master's degree (M.Sc., M.Sc. (Tech)., M.E. / M.Tech.) [or] Bachelor's degree in Engineering or Technology in Electronics & Communications, Mechanical / Electronics / Instrumentation / Electronics and Instrumentation / Mechatronics / Electrical and Electronics from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	PhD in Electronics & Communication / Instrumentation. **Experience in one or more of the following areas:** • Operations & Maintenance of RF systems, INSAT / VSAT terminals, HUB equipment, integration and testing of various other electronic equipment/ oceanographic equipments. • Instrument testing, assembly, calibration, and configuration of oceanographic platform / gadgets such as CTD, uCTD, VMP, Lagrangian float, ADCP, ECFS, DCFS, ASIMET. • Handling (deployment, recovery and preliminary data analysis) and participating on various scientific cruises (including logistics support) for deployment and recovery of various autonomous and non-autonomous observing platforms in Sea.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Operations, maintenance, and integration of various communication equipment such as Antenna terminals, INSAT/VSAT field terminals, Transmitters, Tide gauge systems, etc. • Installation, Operations & maintenance of Digital Display Systems, field visit for troubleshooting & maintenance of installed communication equipment across the mainland & islands. • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.

Post Code: 19		
Name of the Post: Project Scientist – I		
No. of Posts: 02 (Two)		
Age Limit: 35 Years		
Consolidated Monthly Emoluments: Rs. 56,000 + HRA.		
Essential Qualifications:	:	Bachelor's degree in Engineering or Technology in Civil / Public health engineering infrastructure from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable Qualifications & Experience:	:	Master's degree in civil engineering or Ocean Engineering/ Technology or Marine Structures or Equivalent degree from a recognized university. **Experience in one or more of the following areas:** • Construction / maintenance field experience along with knowledge of Auto Cad. • Construction field experience, plumbing & water supply preferably in Govt. / PSU / Autonomous bodies having thorough knowledge of MS office, Auto cad, Preparation of estimates / drawings, preparation & verification of RA bills, taking site measurements, documentation works related to construction activities, day to day supervision of works, safety practices, quality checks etc. • Numerical modelling of coastal process and Shoreline changes using tools like MIKE-21 / Delft-3D / SMS, Design of Coastal/ Marine Structures and Oceanographic Measurement's etc.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Operations and Maintenance of Civil Infrastructure and support in entire Estate Management activities. • Setting of numerical models for coastal processes and shoreline changes. Survey, Oceanographic Measurement's and Design of Coastal/ Marine Structures • 24/7 shift operations. • R&D and teaching activities. Any other scientific/technical job that may be assigned from time to time.
Post Code: 20		
Name of the Post: Project Scientist I		
No. of Posts:01 (One)		
Age Limit: 35 Years		
Consolidated Monthly Emoluments: Rs. 56,000/ + HRA.		
Essential Qualification:		Masters degree (M.Sc., M.Tech., M.Sc. (Tech.)) in Science Communication/ Oceanic Sciences/ Atmospheric Sciences / Climate Sciences / Marine Sciences / Meteorology / Oceanography / Physical Oceanography / Physics / Mathematics / Zoology with Fisheries / Fishery Sciences [or]

		Masters degree in Engineering or Technology in Mechanical /Environmental / Chemical [or] Bachelors degree in Engineering or Technology in Mechanical / Environmental / Chemical from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable:		Diploma/ PG Diploma/ Certificate Course (of min 6 months) in Media communication or Mass communication or public services or global affairs or international relations **Experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.** • International relations, consultancy, training and coordination of activities related to intergovernmental bodies. • Scientific communication, Media (print, electronic and social), public affairs & public relations, science policy work. • Scientific research work proven through reputed publications/ popular articles in magazines, news papers etc.
Responsibilities		**Responsibilities will include one or more of the following activities:** • Specialized operational activities for provision of ocean information and advisory services, including Tsunami warnings, PFZ, OSF etc on a 24/7 basis (including weekends and public holidays), using in situ and remote sensing observations, data processing & analysis, modeling & data assimilation, ICT support. • Public Relations, popularizing the scientific activities of INCOIS through print, electronic and social media. • Activities related to intergovernmental bodies (IOC, IIOE-2, IOGOOS, SIBER, IOR-DCC, IORA Centre of Excellence, etc.), coordinate the bilateral, multi-lateral collaborations, etc. • Support in ITCOocean Training activities, workshops, webinars, etc. Any other scientific/technical job that may be assigned from time to time

Category : Project Assistant		
Post Code: 21 **Name of the Post: Project Assistant** **No. of Posts:15 (Fifteen)** **Age Limit: 50 Years** **Consolidated Monthly Emoluments: Rs. 20,000/ + HRA.**		
Essential Qualification:		• B.Sc. with Computer Science or BCA or Three years Diploma in computer engineering or computer technology or information technology from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable:		**Experience in one or more of the following areas:** • Operational ocean information and advisory services. • Ocean observations (in situ, Remote Sensing, ship based), laboratory analysis, processing of high resolution ocean/atmospheric data including bio-optical, physico-chemical & fisheries data, process studies, etc. • Data analysis software (Ferret, python, GRADS, ODV etc.), programming languages (Matlab, C, Fortran, etc.), AI&ML applications, GIS Application development (Arc Engine, ArcGIS Server, open source GIS tools etc.). • Developing software applications using Java, J2EE, Struts, Spring, Spring Boot and REST API, proficiency in HTML5, Bootstrap, JavaScript, Angular JS, ReactJS, TypeScript, and jQuery, proficiency in databases like IBM DB2, Oracle and MySQL, expertise in the Application & Database Server Management, working knowledge in Linux, UNIX, Windows environments including shell scripting, experience in GIS development & integration using open source GIS tools, experience in Python, experience in Content Management Software (CMS). • Data visualization software (Tableau, Power BI, Ferret, GMT, etc.). • System Administration, Network Management & ICT support.
Responsibilities		**Responsibilities will include one or more of the following activities:** • Specialized operational activities for provision of ocean information and advisory services, including Tsunami warnings, PFZ, OSF etc on a 24/7 basis (including weekends and public holidays), using in situ and remote sensing observations, data processing & analysis, modeling & data assimilation, ICT support.

	• Assembly, integration, testing, deployment, retrieval and maintenance of ocean related equipment and observing equipment.
	• Data processing and analysis related to Database Management, Big Data and Data Analytics applications of AI/ML related to data sets, Open-source software for working with large datasets (such as services user database).
	• Responsible to design, develop and implement various desktop applications for operational ocean services, R&D purpose, Dissemination, etc.
	• To assist in developing, testing, customizing, and operationalize the services / products, data processing and analysis.
	• Cruise participation, cruise logistics, handling of ocean platforms / equipments
	Any other scientific/technical job that may be assigned from time to time.

Post Code: 22
Name of the Post: Project Assistant
No. of Posts:10 (Ten)
Age Limit: 50 Years
Consolidated Monthly Emoluments: Rs. 20,000/ + HRA.

Essential Qualification:	• B.Sc. with Electronics as one of the subject or Three years Diploma in Electronics and Communication / Electronic and Instrumentation / Instrumentation / Electronics / Mechanical / Mechatronics / Electrical and Electronics from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent. • Basic knowledge of computer, in case of non-computer subjects at graduation / diploma level.
Desirable:	**Experience in one or more of the following areas:** • Operational ocean information and advisory services. • Ocean observations (in situ, Remote Sensing, ship based), laboratory analysis, processing of high resolution ocean/atmospheric data including bio-optical, physico-chemical & fisheries data, process studies, etc. • Data analysis software (Ferret, python, GRADS, ODV etc.), programming languages (Matlab, C, Fortran, etc.), AI&ML applications, GIS Application development (Arc Engine, ArcGIS Server, open source GIS tools etc.). • Testing, installation, commissioning & maintenance of marine instrumentation, communication systems and configuration of oceanographic platform / gadgets such as

		Tsunami buoy with bottom pressure recorder (BPR), GNSS and SMA network in A&N Is,, Wave Rider Buoy (WRB) and Automatic Weather Station (AWS).
		• Operations & Maintenance of RF systems, INSAT / VSAT terminals, HUB equipment, integration and testing of various other electronic equipment
		• Knowledge in integration and testing of electronic equipment such as Electronic Display Boards (EDB)/Digital Display System (DDS). Commissioning & maintenance of instrumentation / communication systems.
Responsibilities		**Responsibilities will include one or more of the following activities:** • Specialized operational activities for provision of ocean information and advisory services, including Tsunami warnings, PFZ, OSF etc on a 24/7 basis (including weekends and public holidays), using in situ and remote sensing observations, data processing & analysis, modeling & data assimilation, ICT support. • Assembly, integration, testing, deployment, retrieval and maintenance of ocean related observing equipments, dissemination platforms,etc. • Data processing and analysis related to Database Management, Big Data and Data Analytics applications of AI/ML related to data sets, Open-source software for working with large datasets (such as services user database). • Responsible to design, develop and implement various desktop applications for operational ocean services, R&D purpose, Dissemination, etc. • To assist in developing, testing, customizing, and operationalize the services / products, data processing and analysis. • Cruise participation, cruise logistics, handling of ocean platforms / equipments Any other scientific/technical job that may be assigned from time to time.

Post Code: 23
Name of the Post: Project Assistant
No. of Posts:04 (Four)
Age Limit: 50 Years
Consolidated Monthly Emoluments: Rs. 20,000/ + HRA.

| **Essential Qualification:** | • B.Sc. with Biology or Zoology (Fisheries) or any branch of Biological Sciences/Marine Biology Chemistry / Biology / Zoology / Botany / Microbiology / Biotechnology / Environmental Science from a |

		recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
		• Basic knowledge of computer, in case of non-computer subjects at graduation level.
Desirable:		**Experience in one or more of the following areas:** • Operational ocean information and advisory services. • Ocean observations (in situ, Remote Sensing, ship based), processing of high resolution ocean/atmospheric data including bio-optical, physico-chemical & fisheries data, process studies, etc. • Data analysis software (Ferret, python, GRADS, ODV etc.), programming languages (Matlab, C, Fortran, etc.), AI&ML applications, GIS Application development (Arc Engine, ArcGIS Server, open source GIS tools etc.), data visualization software (Tableau, Power BI, Ferret, GMT, etc.). • Laboratory analysis of bio-optical parameters, water quality parameters, and algal pigment chromatography • System Administration, Network Management & ICT support.
Responsibilities		**Responsibilities will include one or more of the following activities:** • Specialized operational activities for provision of ocean information and advisory services, including Tsunami warnings, PFZ, OSF etc on a 24/7 basis (including weekends and public holidays), using in situ and remote sensing observations, data processing & analysis, modeling & data assimilation, ICT support. • Assembly, integration, testing, deployment, retrieval and maintenance of ocean related equipment and observing equipment. • Data processing and analysis related to Database Management, Big Data and Data Analytics applications of AI/ML related to data sets, Open-source software for working with large datasets (such as services user database). • Responsible to design, develop and implement various desktop applications for operational ocean services, R&D purpose, Dissemination, etc. • To assist in developing, testing, customizing, and operationalize the services / products, data processing and analysis. • Cruise participation, cruise logistics, handling of ocean platforms / equipments Any other scientific/technical job that may be assigned from time to time.

Post Code: 24
Name of the Post: Project Assistant
No. of Posts:06 (Six)
Age Limit: 50 Years
Consolidated Monthly Emoluments: Rs. 20,000/ + HRA.

Essential Qualification:		- B.Sc. with Physics or Mathematics or Statistics from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent - Basic knowledge of computer, in case of non-computer subjects at graduation.
Desirable:		**Experience in one or more of the following areas:** - Operational ocean information and advisory services. - Ocean observations (in situ, Remote Sensing, ship based), laboratory analysis, processing of high resolution ocean/atmospheric data including bio-optical, physico-chemical & fisheries data, process studies, etc. - Data analysis software (Ferret, python, GRADS, ODV etc.), programming languages (Matlab, C, Fortran, etc.), AI&ML applications, GIS Application development (Arc Engine, ArcGIS Server, open source GIS tools etc.). - Application software development using Java, J2EE, Java Technologies with exposure to Database Management Software like Oracle, DB2, MySQL, etc, including design and development of mobile applications, Shell scripting and Cloud Computing. - Data visualization software (Tableau, Power BI, Ferret, GMT, etc.). - System Administration, Network Management & ICT support. - Scientific cruise participation, handling of oceanography equipments, oceanography data analysis, operational model runs.
Responsibilities		**Responsibilities will include one or more of the following activities:** Specialized operational activities for provision of ocean information and advisory services, including Tsunami warnings, PFZ, OSF etc on a 24/7 basis (including weekends and public holidays), using in situ and remote sensing observations, data processing & analysis, modeling & data assimilation, ICT support.

	• Assembly, integration, testing, deployment, retrieval and maintenance of ocean related equipment and observing equipment. • Data processing and analysis related to Database Management, Big Data and Data Analytics applications of AI/ML related to data sets, Open-source software for working with large datasets (such as services user database). • Responsible to design, develop and implement various desktop applications for operational ocean services, R&D purpose, Dissemination, etc. • To assist in developing, testing, customizing, and operationalize the services / products, data processing and analysis. • Cruise participation, cruise logistics, handling of ocean platforms / equipments Any other scientific/technical job that may be assigned from time to time.

Post Code: 25
Name of the Post: Project Assistant
No. of Posts:01 (One)
Age Limit: 50 Years
Consolidated Monthly Emoluments: Rs. 20,000/ + HRA

Essential Qualification:	• Three years Diploma in civil engineering from a recognized university/institute with at least 60% of marks in the qualifying degree or its equivalent.
Desirable:	**Experience in one or more of the following areas:** • Construction / maintenance field experience with Auto Cad knowledge. • Construction field experience, plumbing & water supply preferably in Govt. / PSU / Autonomous bodies having thorough knowledge of MS office, Auto cad, Preparation of estimates / drawings, preparation & verification of RA bills, taking site measurements, documentation works related to construction activities, day to day supervision of works, safety practices, quality checks etc. • Electrical maintenance of VCB's / ACB''s, operations or Project related works preferably in Govt. / PSU / Autonomous bodies/ Multi National Companies having thorough knowledge of MS office, Auto cad, Preparation of estimates / drawings, preparation & verification of RA bills, taking site measurements, documentation works related to O&M activities, maintenance of VCB's/ACB's/HT/LT Switch gear, trouble shooting, root

		cause analysis of problems, day to day supervision of works, safety practices, quality checks etc.
Responsibilities		**Responsibilities will include one or more of the following activities:** • Specialized operational activities for provision of ocean information and advisory services, including Tsunami warnings, PFZ, OSF etc on a 24/7 basis (including weekends and public holidays), using in situ and remote sensing observations, data processing & analysis, modeling & data assimilation, ICT support. • Operations and Maintenance of Civil Infrastructure and support in maintenance of the entire entire management. Any other scientific/technical job that may be assigned from time to time.

Category : Project Scientific Administrative Assistant

Post Code: 26
Name of the Post: Project Scientific Administrative Assistant
No. of Posts: 06 (Six)
Age Limit: 50 Years
Monthly Emoluments: Rs. 18,000 + HRA

Essential Qualification:	:	A Graduate degree in any discipline.
Desirable:	:	• Good written and oral communication in English. • Experience in Scientific/R&D institutions in activities related to management of scientific projects. • Excellent working knowledge of Microsoft Office, especially Word, Excel and PowerPoint. • Experience in using office automation software and ERP.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Assist the groups/divisions in day to day matters related to implementation and management of scientific projects. Any other job that may be assigned from time to time.

Category: Expert / Consultant

Post Code: 27
Name of the Post: Expert / Consultant (Scientific)
No. of Posts: 03 (Three)
Age Limit: 65 Years

Essential Qualifications & Experience:	:	Doctoral Degree in Ocean Sciences / Atmospheric Science/ Marine Sciences/ Physics or Masters degree in Technology in

		Ocean/ Atmospheric Science from a recognized university or its equivalent.
		AND 20 (Twenty) years of experience in one or more of the following areas demonstrated by publications in reputed peer-reviewed SCI journals.
		• Ocean observations (in situ, Remote Sensing, ship based) including testing, assembling, calibration, configuration, deployment, recovery, and data analysis of oceanographic instruments such as Deep Sea Glider, Argo Floats, Wave Drifters, Moorings, Tide Gauges, CTD, uCTD, VMP, Lagrangian float, ADCP, ECFS, DCFS, ASIMET, Radiometers, Radiosonde, process studies, laboratory analysis of water samples, etc.
		• Scientific project management and implementation related to Modelling and forecasting of Ocean/Atmosphere/Sea-ice/Earth System Processes for Ocean General Circulation (MOM, ROMS, HyCOM), Climate, Ocean Ecosystem/ Biogeochemistry (FVCOM, ERSEM, COBALT, TOPAZ etc), Waves (WWIII, SWAN), Cyclone (HWRF), Storm Surges (ADCIRC), Tsunamis (TUNAMI), Tides, Oil Spills (GNOME), Fisheries (ECOPATH, ECOSIM), Primary Productivity, Coastal processes etc, including Data Assimilation (LETKF, 3DVAR, Hybrid etc), model porting, model parametrization, fine tuning and installation in HPC environment for R&D and providing operational services.
		• Data processing, analysis and visualization of high-resolution ocean/atmosphere /climate (CMIP5/CMIP6), bio-optical, physico-chemical & fisheries data, Satellite data etc using data analysis software (Ferret, python, GRADS, ODV, SeaDAS etc.,), programming languages (Matlab, Python, R, C/C++, Fortran, Shell scripting etc.), AI&ML applications, Ensemble techniques, GIS Applications (Arc Engine, ArcGIS Server, open-source GIS tools etc.), Operating Systems (LINUX / UNIX, Windows), Data formats (NetCDF, HDF, GRIB, GrADS etc).
Desirable Qualifications:	:	• Physical fitness to undertake work onboard boats/ships at sea. • A short write up (two page) on relevant initiatives you implemented, challenges you have overcome, innovation you made, in your immediate past job and plan for meeting the responsibilities/deliverables envisaged in this job should be included along with the application.

		• Teaching in the fields of Atmospheric Sciences / Oceanic Sciences /Marine Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography/ Fisheries / Chemical Oceanography / Ocean Technology/ Physics or relevant fields. • Retired Govt. officials with relevant experience may also apply.
Responsibilities	:	**Responsibilities will include one or more of the following activities:** • Development of conceptual frame work and implementation for impact based & location specific forecasts for PFZ, OSF & multi hazard services. • Documentation and knowledge transfer on the impact based system. • Development of optimal ocean observing framework; participation in scientific cruises; deployment and recovery of oceanographic instruments at sea, data acquisition, processing, and interpretation leading to scientific publications. • R&D and teaching activities on operational oceanography using the observational data, and assist in day to day conduct of operational oceanography classes including computer labs. Any other scientific/technical jobs that may be assigned from time to time.
Remuneration		For retired govt. employees the remuneration will be calculated by deducting the pension from the Basic pay drawn at the time of reirement for those covered under Govt. pension scheme. The consultant shall also be entitled for Transport Allowance. OR A consolidated sum of Rs.1,00,000/- p.m. for those who are not covered under Govt. Pension Scheme.

Post Code: 28
Name of the Post: Expert/Consultant (Scientific)
No. of Posts: 01 (One)
Age Limit: 65 Years

Essential:	:	Doctoral degree in Computer Science/Informaton Technology or Masters degree in Engineering or Technology

		in Computers/Information Technology (or) its equivalent from a recognized university.
		AND
		20 years' experience in one or more of the following areas:
		• Information and Communication Technology (ICT) area, specially in handling large IT projects from formulation to its implementation.
		• Setting up of HPC systems, HPC data centres, working on parallel filesystems, HA clusters, HSM based archival systems, etc. preferably in ocean modeling domains.
		• Development of IT Applications in a high-available environment.
		• Operations and maintenance of IT Infrastructure including system administration and network management.
Desirable	:	A short write up on relevant work / projects carried out by you in the past jobs and your suitability to the the present position.
		Retired Govt. officials with relevant experience may also apply.
Responsibilities	:	Guiding end to end implementation of ICT projects, Data Centres designs & implementation, Application Software Development including Web Applications Development, Cloud Computing, feasibility study of implementing latest IT technologies in the field of Ocean Information & Advisory Services. Provoding expert advise in operations and maintenance of IT.
		Preparing technical documentation
		R&D and teaching activities.
		Any other job that may be assigned from time to time.
Remuneration	:	To be calculated on deducting the pension from the Basic pay drawn at the time of reirement for those covered under Govt. pension scheme. The consultant shall also be entitled for Transport Allowance.
		OR
		A consolidated sum of Rs.1,00,000/- p.m. for those who are not covered under Govt. Pension Scheme.

Post Code: 29 **Name of the Post: Expert/Consultant (Admin)** **No. of Posts: 01 (One)** **Age Limit: 65 Years**		
Essential Qualification:	:	Graduate in any discipline from a recognized university. AND 20 years of experience in one or more of the following areas: • Personnel and General Administration, Purchase and Stores, Accounts & Financial matters out of which atleast six years of experience at Group 'A' i.e. Rs. 5400 in PB-3/ Level 10 on regular basis. • Should have retired from Government/ Semi-Government/ Public Sector Undertakings/ Autonomous bodies in the rank of Admin Officer or equivalent or above i.e. not below the post carrying GP of Rs. 5400 in PB-3/ Level 10 on regular basis. • Thorough knowledge and experience in handling Personnel and General Administration as per the rules and regulations of Govt. of India, in addition to familiarity with Purchase and Stores, Accounts & Finance, Legal matters etc.
Desirable		• A Degree in Law (including BGL) • A short write up (two page) on relevant initiatives you implemented, challenges you have overcome, innovation you made, in your immediate past job and plan for meeting the responsibilities/deliverables envisaged in this job should be included along with the application. • Retired Govt. officials with relevant experience may also apply.
Responsibilities	:	Work related to Personnel and General Administration, Purchase and Stores, Accounts & Financial matters, drafting/vetting of pleadings in Service/Civil disputes (including arbitration), RTI appeals, preparation /verification / editingof agreements/contracts / MoUs. Preparation of statutory documentation in support of ongoing legal matters of INCOIS. Preparation of policy documents/compendiums on Personnel & General Administration/ Finance & Accounts/Purchase & Stores. And any other work as assigned to him by the Competent Authority.

Remuneration	:	To be calculated on deducting the pension from the Basic pay drawn at the time of reirement for those covered under Govt. pension scheme. The consultant shall also be entitled for Transport Allowance. OR A consolidated sum of Rs.65,000/- p.m. for those who are not covered under Govt. Pension Scheme.

General Conditions:

1. **The last date of submission of online application is <u>September 09, 2022</u>. The last date is the cutoff date for all purposes including Age/Qualification/experience etc.**

2. The positions will be initially for a period of one year, extendable based on performance/project requirement on year-to-year basis till March 2026 or co-terminus with the projects whichever is earlier.

3. Age relaxation against posts reserved for SC/ST/OBC/ candidates and Ex-S Men/PWD (irrespective of reservation) will be as per orders issued by the Government of India from time to time.

4. The prescribed essential qualifications are minimum and the mere possession of the same does not entitle candidates to be called for interview/written exam as applicable. If the number of applications received in response to advertisement is large, it will not be convenient or possible for the Selection Board to interview and/or conduct written exam for all those candidates. The Centre may restrict the number of candidates to be called for interview and/or written exam to a reasonable limit based on desirable qualification and/or on the record of academic performance and/or relevant experience for the post prescribed in the advertisement as per the specific requirement of the Centre and/or any other bench mark decided by a committee constituted to screen the applications. No correspondence will be entertained with candidates who are not called for Interview and/or written exam.

5. Depending on the pandemic situation, exams/interviews might be held either online platforms or physical presence to all the shortlisted candidates.

6. For positions where interview is the mode of final selection, a candidate applying and getting shortlisted for multiple posts will be interviewed separately for each post.

7. Canvassing in any form and/or bringing any influence, political or otherwise will be treated as disqualification. No interim correspondence/inquiry will be entertained.

8. Candidates working in Government/Public Sector Undertakings/Autonomous bodies must produce a 'No Objection Certificate' from their employer at the time of written test/interview. Candidature of candidates attending the written test/interview without producing the NOC will be summarily rejected.

9. Experience will be counted **after completion of essential academic qualifications** while a completed doctorate degree will be counted as three years' experience in case the doctorate is not mentioned in the essential qualification, which shall include the period rendered as JRF/SRF required for obtaining the doctorate degree.

10. In case a candidate has obtained the above degree (doctoral degree) while in service only, his /her service period will be counted towards experience and he/she will not get any additional weight-age in experience for acquiring Doctorate towards total period of experience.

11. The selection for the posts shall be on the basis of performance of the screened-in candidates in the interview/written test depending upon the post.

12. The selected candidates are liable to serve any where in India, and work on 24/7 shift duties as per the requirement of the organization.

13. No travelling allowance will be paid for attending the interview/written examination.The candidates need to make their own stay arrangements. INCOIS will not be responsible for any accommodation arrangements.

14. Director, INCOIS reserves the right to cancel the recruitment process at any stage, without assigning any reason there of or vary the number of posts to be filled under each category.

15. Discrepancies in the certificates, non-production of the original certificates and No Objection Certificate at the time of interview will attract the disqualification of applications.

16. Production of the original certificate at the time of interview is must. Candidate's currently working in any other organization need to provide the proof of their current employment with a service/experience certificate from the employer. Appointment order or Pay slips or identity cards will not be considered as proof of current employment.

17. At present, the place of posting is at Hyderabad with transfer liability to any part of India as and when need arises.

18. All project positions are purely temporary and on contract co-terminus with the project not entitling the candidate for regular/permanent appointment at anytime during or after the expiry of the term/project..

19. The monthly emolument specified is approximate and may vary as per the guidelines issued by Competent Authority from time to time.

20. Any addendum/corrigendum etc. with regard to this recruitment will be displayed only on INCOIS website.

21. Mode of Selection:

For the posts of Sl.No. 1 to 3 & 6	Through Written test / Interview
For the posts of Sl.No. 4 to 5	Through Written Test only

22. **Application procedure:** The entire application procedure is online. Copies of certificates in support of educational qualifications, date of birth, disability, caste (SC/ST/OBC), EWS/PWD/EX-S Men Discharge, experience, no objection certificates, digital signatures, photograph etc. should be uploaded along with the online application. All the uploaded documents should be in the form of PDF file and photograph and signature in the form of .jpg format. If the certificates are in a language other than English or Hindi, attested translation should be enclosed.

23. **How to apply:** To apply, the applicant must fill the online application form available at INCOIS website www.incois.gov.in and upload the scanned documents in the online application form. The candidates are **not** required to send any hard copies by post or through e-mail but must carry them when called for interview/test.

24. Applicants are requested to carefully go through the full text of the advertisement and the instructions in particular before filling the online application. Incomplete applications without photos, certificates, NOC etc will be summarily rejected.

25. Incase of any difficulty in the submission of online application form (not for other queries), please email to **vacancies@incois.gov.in**.

26. Instructions to Applicants for submission of online Application:

  i. Online application form & details of recruitment of the Post is available at https://incois.gov.in/jobs/index.jsp
  ii. Before submitting the online application, the applicants are requested to go through carefully the details of the post and content of the post on the website https://incois.gov.in/jobs/index.jsp
  iii. Submit online application well in advance along-with legible scanned copies of educational qualification, experience certificates, date of birth, disability (OH,PH), caste (ST/ST/OBC) certificate, No Objection Certificate in PDF format not exceeding 500 KB for each document/attachment. If the certificates are in a language other than English or Hindi, then attested translation should be uploaded. The applicants are not required to send hard copies to the undersigned.
  iv. A recent passport size colour photograph (scanned) should be in .jpg format (size not exceeding100 KB).
  v. Signature (scanned) should be in .jpg format (size not exceeding100KB)
  vi. The applicants are advised to fill in all their particulars carefully in the online application. Incomplete application may lead to rejection.
  vii. Applicants are advised to retain the acknowledgement and print out of the submitted online application for future reference.

Director, INCOIS
AdvtNo:INCOIS/RMT/04/2022