ESSO-Indian National Centre for Ocean Information Services (INCOIS)
Earth System Science Organization (ESSO)
Ministry of Earth Sciences (MoES), Government of India

ESSO-INCOIS, a knowledge and information technology enterprise for the oceanic realm, is pursuing focused programmes in the areas of Ocean Observations, Ocean Modeling and Ocean Information & Advisory services including Tsunami Early Warning. ESSO-INCOIS is currently offering the following **temporary positions** to bright, dynamic and motivated persons to contribute to its missions and projects. The temporary positions are on **CONTRACT MODE,** and the initial tenure would be for a period of one year, extendable based on the need of project and performance of the candidate. Details about the positions, consolidated monthly emoluments, academic qualifications, responsibilities, format of application and other general conditions are given below:

Post Code	Name of the Post	No. of Posts	Qualifications	Age limit (as on the date of closure of application)
01	Project Scientist 'C'	01	**Essential Qualification** M.Sc. in Computer Sciences or MCA or Bachelor's Degree in Engineering or Technology or its equivalent from a recognized university / institute with atleast first class (60% of marks) in the qualifying degree. **Essential Experience** Minimum of 3 (three) years working experience in one or more of the following areas: • Work experience in the 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 and Shell scripting.	40 years

				Desirable Qualifications / Experience	
				Possessing at least one or multiple qualifications/skills of the following:	
				Master's Degree in Engineering or Technology or its equivalent from a recognized university/institute with atleast first class (60% of marks) in the qualifying degree.	
				Work experience / good knowledge in design and development of application security software. Work experience in implementing new technologies and processes that enhance web/cyber security capabilities.	
				Persons having strong computer programming knowledge with hands on experience in design & development of secured applications, database management software having security certification are preferable.	
				Work experience in analysing and advising on new security technologies and program conformance.	
				Work experience in implementing secure coding practices, ethical hacking and threat modelling.	
				Work experience in application security and encryption technologies.	
				Work experience/ good knowledge in GIS Application development using Arc Engine, ArcGIS Server, open source GIS tools, etc.	
				Responsibilities will include one or more of the following activities:	
				Design, develop and maintain application software required for various operational projects of INCOIS including design, development and	

| | | | maintenance of various web / geospatial applications using latest suitable technologies, tools and databases.

Performing continual code review and security testing for the purpose of improving software security.

Any other scientific/technical jobs that may be assigned from time to time.

Emoluments: Consolidated monthly emoluments Rs. 68,952/-. | |
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| 02 | **Project Scientist 'C'** | 02 | **Essential Qualification:**

Post Graduate Degree (M.Sc., M. Tech., M.Sc.(Tech.)) in Oceanic Sciences/ Atmospheric Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography / Physics / Mathematics or its equivalent from a recognized university / institute with at least first class (60% of marks) in the qualifying degree with at least 03 years of experience in relevant field.

Desirable:

Ph.D. in Physical /Marine/Chemical Oceanography/ Meteorology/ Atmospheric Sciences or 3 (three) years of experience in research and development/teaching in the field of physical oceanography/Atmospheric Sciences.

Experience with data analysis software (e.g., Ferret, GRADS, ODV etc) and programming languages (eg: Matlab, C, Fortran etc.), ocean modeling, data analysis, etc.

Physical fitness and experience to undertake work onboard boats/ships at sea. | 40 years |

			Responsibilities :	
			The selected candidate is expected to engage in teaching and R & D activities at INCOIS.	
			Any other scientific/technical jobs that may be assigned from time to time	
			Emoluments: Consolidated monthly emoluments Rs.68,952/-.	
03	**Project Scientist 'B'**	01	**Essential Qualifications**	35 Years
			M.Sc in Electronics or B.Tech / B.E or equivalent in Electronics & Communications Engineering from a recognized university / institute with atleast first class (60% of marks) in the qualifying degree.	
			Desirable	
			Experience in Operations & maintenance of RF systems, Antenna systems and various other communication equipments.	
			Experience in Operations & maintenance of INSAT/VSAT field terminals and HUB stations.	
			Experience in integration and testing of electronic equipment.	
			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.	
			Any other scientific/technical jobs that may be assigned from time to time.	
			Emoluments: Consolidated monthly emoluments Rs.57,120/-.	
04	**Project Scientist 'B'**	8	**Essential Qualification:** Post Graduate Degree (M.Sc., M. Tech.,, M.Sc.(Tech.)) in Atmospheric Sciences / Oceanic Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography / Physics/Mathematics or its equivalent from a recognized university / institute with at least a first class (60% of marks) in the qualifying degree **Desirable:** Research/teaching experience in Physical Oceanography / Atmospheric sciences including familiarity with data processing and analysis. Experience in the field of physical and biogeochemical data collection at sea by undertaking/participating in cruises. Experience in programming (Fortran, C, C++, Python, etc.) and data analysis using softwares (e.g., Ferret, Matlab, etc.,). Familiarity with scientific visualization and analysis software such as FERRET, GMT, MATLAB, ODV, GRADS etc.	35 years

			Physical fitness and experience to undertake work onboard boats/ships at sea.	
			Responsibilities will include one or more of the following activities:	
			The selected candidate will be required to contribute in augmenting the oceanographic research data management activities of the INCOIS data centre. Specifically, the candidate is expected to handle heterogeneous oceanographic datasets (both surface and sub-surface), perform quality control and analysis of the data, participate in scientific cruises/field works, deploy and recover oceanographic instruments at sea, development of multi model ensemble techniques for Ocean forecasting, inter comparison of operational Ocean forecast models, operationalization of forecast models, quality assessment of forecast products, improvement in delivery mechanism, etc.	
			The selected candidate is expected to engage in teaching and R & D activities at INCOIS.	
			Any other scientific/technical jobs that may be assigned from time to time.	
			Emoluments: Consolidated monthly emoluments Rs. 57,120/-.	
05	**Project Scientist 'B'**	04	**Essential Qualification:** Post Graduate Degree (M.Sc., M. Tech., M.Sc.(Tech.)) in Oceanic Sciences/ Atmospheric Sciences / Climate Sciences / Meteorology / Oceanography / Physical Oceanography / Physics / Mathematics or its equivalent from a recognized university / institute with at least a first class (60% of marks) in the qualifying degree.	35 years

			Desirable: Work/research experience in numerical models like ROMS, HYCOM, MOM, etc. Exposure to oceanographic data formats, statistical analysis of oceanographic and atmospheric data, modeling of ocean biogeochemisty, and/or analysis of marine biogeochemical data. Programming skills in Fortran, C/C++, Python, etc. Familiarity with scientific visualization and analysis softwares such as FERRET, GMT, MATLAB, ODV, GRADS etc. Physical fitness to undertake work onboard boats/ships at sea. **Responsibilities will include one or more of the following activities:** The selected candidate is expected to work with teams involved in development of ocean models, data analysis, research leading to improvements in the performance of the models like Hycom/MOM/ROMS etc. Any other scientific/technical jobs that may be assigned from time to time **Emoluments: Consolidated monthly emoluments Rs.**57,120/-.	

| 06 | Project Scientist 'B' | 02 | **Essential Qualification:**

M.Sc in Fishery Science/MFSc. or its equivalent from a recognized university/institute with at least first class (60% of marks) in the qualifying degree.

Desirable:

Specialization in Fisheries Resource Management or marine fisheries / oceanography related subjects and with knowledge in Remote Sensing & GIS

Research and development/Teaching experience in the relevant field of fisheries, fisheries, application of remote sensing and GIS.

Responsibilities will include one or more of the following activities:

To carry out research on improvements in currently used techniques to identify the potential fishing grounds, collection of in-situ time series data from estuarine and marine environments, usage of remotely sensed data for fisheries applications, etc.

Physical fitness to undertake work onboard boats/ships at sea.

Any other scientific/technical jobs that may be assigned from time to time. The selected candidate is expected to engage in teaching and R & D activities at INCOIS.

Emoluments: Consolidated monthly emoluments Rs.57,120/-. | 35 years |

| 07 | **Project Scientist 'B'** | 01 | **Essential Qualification:**

M.Sc in Geoinformatics/ Remote Sensing and GIS/ Geospatial Sciences or its equivalent from a recognized university/institute with at least a first class (60% of marks) in the qualifying degree.

Desirable:

Experience in teaching/Research experience in the field of marine and coastal geospatial/Remote Sensing/GIS applications.

Experience in remote sensing and data analysis using softwares (ARC-GIS, ARC-View, QGIS etc) and programming languages (eg: Matlab, C, Fortran etc.)

Physical fitness to undertake work onboard boats/ships at sea

Responsibilities :

The selected candidate is expected to engage in teaching and R & D activities at INCOIS.

Any other scientific/technical jobs that may be assigned from time to time.

Emoluments: Consolidated monthly emoluments Rs.57,120/-. | 35 years |

| 08 | Project Assistant | 01 | **Essential Qualification:**

B.Sc. (Computer Science) or BCA OR Three years diploma in computer engineering / science or computer technology after 10+2 (with 60% marks) or its equivalent qualifications from a recognized board or university.

Desirable:

Work experience/ good knowledge in the development of web applications using J2EE environment, Java, Struts, Spring, Hibernate, PL/SQL, Database (Oracle, DB2, MySQL, MS Access), HTML, DHTML, CSS, JavaScript, jQuery, Ajax, Angular JS, etc.

Responsibilities will include one or more of the following activities:

To design, develop and implement various web applications of ocean information services. Other responsibilities include operation and maintenance of INCOIS Website, Tsunami Website, ISGN Website etc including database administration. To assist in ocean data analysis, processing data sets and development of other application software.

Physical fitness to undertake work onboard boats/ships at sea.

Any other scientific/technical jobs that may be assigned from time to time.

Emoluments: Consolidated monthly emoluments Rs.36,720/-. | 28 Years |

| 09 | **Project Assistant** | 02 | **Essential Qualification:**

Three years Diploma in Electronics and Communication Engineering or Electronics and Instrumentation Engineering after 10+2 (with 60% of marks) or its equivalent qualifications from a recognized board or university.
Basic knowledge of computers.

Desirable:

Two (02) years of experience in installation, commissioning & maintenance of instrumentation / communication systems. Good knowledge of different sensors, integration and calibration methods.

Responsibilities will include one or more of the following activities:

Deployment and maintenance of various oceanographic equipments/observing systems like Wave Rider Buoy, Ship based Automatic weather stations, etc.,
Coordination with different agencies and helping the scientists with data processing and analysis,

Physical fitness to undertake work onboard boats/ships at sea

Any other scientific/technical jobs that may be assigned from time to time.

Emoluments: Consolidated monthly emoluments Rs.36,720/-. | 28 Years |

10	**Project Assistant**	03	**Essential Qualification:**	28 Years
			Three years Diploma in engineering in Computer Science or Information Technology after 10+2 (with 60% of marks) or its equivalent qualification from a recognized board or university.	
			Desirable:	
			Possessing of at least one or multiple qualifications/skills of the following:	
			Experience in the development of web applications using Java, Struts, Spring, Hibernate, PL/SQL, Database (Oracle, DB2, MySQL, MS Access), HTML, DHTML, CSS, JavaScript, jQuery, Ajax, Angular JS, etc.	
			Experience/ good knowledge in the development of web applications using Java, Struts, Spring, Hibernate, PL/SQL, Database (Oracle, DB2, MySQL, MS Access), HTML, DHTML, CSS, JavaScript, jQuery, Ajax, Angular JS, etc.	
			Physical fitness to undertake work onboard boats/ships at sea.	
			Responsibilities will include one or more of the following activities:	
			The selected candidates will be required to work in the areas of (i) tsunami watch/shift operations (24X7) and (ii) responsible to design, develop and implement various web applications and desktop applications for tsunami and storm surge services, maintenance of the website and database administration.	
			Any other scientific/technical jobs that may be assigned from time to time.	
			Emoluments: Consolidated monthly emoluments Rs.36,720/-.	

| 11 | Project Assistant | 01 | Essential Qualification:

Bachelor's degree in any branch of Biological Sciences/Marine Biology/Physics/Chemistry from a recognized university/board with at least first class (60% of marks) in the qualifying degree.

Desirable:

Two (02) years of experience in collection and/or chemical analysis of water samples from coastal ocean/estuaries.

Responsibilities will include one or more of the following activities:

Collection of water samples from coastal waters/estuaries and chemical analysis of the samples, maintenance of office, upkeep of instruments used for oceanographic data collection and secretarial support for the scientist/supervisor.

Physical fitness to undertake work onboard boats/ships at sea.

Any other scientific/technical jobs that may be assigned from time to time.

Selected candidate will have to serve in any part of the country as part of the job.

Emoluments: Consolidated monthly emoluments Rs.36,720/-. | 28 years |

| 12 | **Project Junior Office Assistant** | 06 | **Essential Qualification:**

A Bachelor's degree from a recognized university, basic knowledge of computer and minimum 5 years experience preferably in Govt. / PSU/Autonomous Bodies / in the relevant area in PB-1+GP. Rs.2400/- or its equivalent.

Desirable:

• Post Graduation / Masters in Mass communication.
• Good written and oral communication in English.
• Type writing (speed of 40 w.p.m.)

Responsibilities will include one or more of the following activities:

Work as secretarial assistant.

Coordinate with other governmental/non-governmental organizations, agencies, etc.
Helping the group head/senior scientists with training activities.

Any other jobs that may be assigned from time to time.

Emoluments: Consolidated monthly emoluments Rs.30,899/-. | 32 Years |

| 13 | Project Co-ordinator | 01 | **Essential Qualification:**

i) 12th class pass or equivalent from a recognized board or university.

ii) Skill test norms :
• Shorthand dictation : 10 mts @ 80 w.p.m. (English)
• Transcription : 50 mts. (English) on computer

Desirable :

Graduation from recognized university.

Responsibilities will include one or more of the following activities:

Work as secretarial assistant.

Coordinate with other governmental/non-governmental organizations, agencies, etc.
Helping the group head/senior scientists with training activities.

Any other jobs that may be assigned from time to time.

Emoluments: Consolidated monthly emoluments Rs.26,955/- | 30 Yrs. |

Recruitment Procedure :

The Government of India has decided to dispense with interviews for all Group 'B' Non-Gazetted and Group 'C' posts with effect from January 01, 2016. Accordingly, the following method will be adopted for recruitment to various posts :

Project Assistant (Scientific / Technical) : Through Written Test:

- Competitive Test would be of Objective questions with Multiple Choice.
- The examination will have 100 marks on the pattern given below :

PART - A	
General Knowledge and Aptitude, Numerical Ability and General English	60 marks
PART - B	
Test in General Science (Mathematics, Physics, Computer Science) for Graduates & Test in General Engineering for Diploma candidates	40 marks

Project Junior Office Assistant : Through Written Test:

- Competitive Test would be of Objective questions with Multiple Choice.
- The examination will have 100 marks on the following subjects :

General Intelligence & Reasoning, General Awareness, Quantitative Aptitude and English Comprehension	100 marks

Project Co-ordinator :

Competitive Test would be of Objective questions with Multiple Choice . The written examination will have 50 marks and skill test for 50 marks as details below :

Written test : General Intelligence & Reasoning, General Awareness, Quantitative Aptitude and English Comprehension	50 marks
Skill test : Shorthand dictation : 10 mts @ 80 w.p.m. (English) Transcription : 50 mts. (English) on computer	50 marks

The prescribed essential qualifications are minimum requirements and mere possession of the same does not entitle candidates to be called for written test. If the number of applications received in response to advertisement are large, it will not be convenient or possible to call all candidates for written test. Hence, ESSO-INCOIS may restrict the number of candidates to be called for written test through screening process to a maximum of 1/4 of total number of applications received for the post or 50 applicants whichever is lower. The criteria for screening of the applications will be based on candidates' qualifying credentials against (i) the essential requirements specified above, (ii) date of birth (after relaxation of age as applicable), (iii) completeness of the application in terms of the providing accurate details and submission of the passport size photograph, and copies of the marks list, academic and experience certificates, signature, (iv) meeting of essential experience in relevant fields as specified, (vi) desirable qualification and experience as specified in the above, (vii) consistent academic performance at one or more levels etc. The candidate's experience certificates should clearly specify whether they possess the experience / knowledge / skills / technology / software platform requested in the essential / desirable experience requirements against each post and the period of work experience. The benchmark for screening the applications will be set by a committee constituted to screen the applications.

Basic Knowledge in computers will be assessed based on the subjects he / she studied in their academic curriculum or against a certificate for completion of any computer course. The candidates applying for the posts where basic knowledge in computers is part of essential qualification, has to meet the above assessment criteria without fail in order to consider his candidature for the post.

The screened in candidates will be called for written test and the selection of the candidate will be made based on the final merit list drawn on the basis of performance in the written test. If more number of applicants secured equal marks against a vacancy and the number of vacancies are less than the no. of qualified merit candidates, the percentage of marks secured at qualifying degree will be added to the marks obtained in the written test and the merit list will be made. If further tie between the candidates exists, the percentage of marks from subsequent lower educational qualifications such as SSC, Intermediate / HSC will be taken into consideration to select the merit candidate/s. Note: **There will be negative marking for each wrong answer**. **List of candidates who are shortlisted as well as eliminated will be made available on website and no correspondence will be entertained with candidates who are not called for written test/interview/selected for appointment.**

Selection Procedure for recruitment of Project Scientist 'C / B' : Through Interview :

The prescribed essential qualifications are minimum requirements and the mere possession of the same does not entitle candidates to be called for interview. If the numbers of applications, received in response to advertisement are large, it will not be convenient or possible to call all candidates for interview. Hence, ESSO-INCOIS may restrict the number of candidates to be called for interview to the reasonable limit through screening process. The criteria for screening of the applications will be based on candidates qualifying credentials against (i) the essential requirements specified above, (ii) date of birth (after relaxation of age as applicable), (iii) completeness of the application in terms of the providing accurate details and submission of the passport size photograph, and copies of the marks list, academic and experience certificates, signature, (iv) meeting of essential experience in relevant fields as specified, (vi) desirable qualification and experience as specified in the above, (vii) consistent academic performance at one or more levels etc. The candidates experience certificates should clearly specify whether they possess the experience / knowledge / skills / technology / software platform requested in the essential / desirable experience requirements against each post and the period of work experience. The benchmark for screening the applications will be set by a committee constituted to screen the applications. The final selection of the candidate will be based on the candidate's performance in the technical interview. No correspondence will be entertained with candidates who are not called for interview/selected for appointment.

General Conditions:

- Applications should be submitted online in the prescribed format. Applications that are not submitted in the prescribed format will not be considered. The candidate's age should not exceed the age limit mentioned above as on **date of closure of application i.e. August 31, 2018** (SC / ST / OBC / Ex-servicemen, PH candidates are eligible for relaxation in age limit as per Govt. of India orders). The Secretary, MoES / Chairman, ESSO-INCOIS Governing Council may relax the upper age limit for highly experienced candidates in specialized scientific / technical areas.
- Reservation as per Govt. of India norms and will be applicable to the above posts except for Project Scientist 'C'.
- Experience will be counted from the date of acquiring the essential academic qualifications. The experience, relevant to the requirement of job or research or teaching will only be considered towards the total period of experience. Doctorate degree in the relevant field will count as 3 years of experience.
- All positions involve 24 X 7 operations and hence selected candidates are required to work in shift duties (also during holidays, including Saturday and Sundays, festivals, national holidays, etc.), if assigned, and also to participate in various field programmes on board research vessels, boats, at various coastal locations, etc or any other works assigned to him/her from time-to-time by Director, ESSO-INCOIS / Group Head / Scientist In-charge.
- The selected candidates have to submit a medical insurance policy valid for the tenure at INCOIS or extended period thereof (for self) for a minimum value of Rs.2.50 lakhs at the time of joining .
- The broad responsibilities of the selected candidates from Scientific / technical fields will be collection of oceanography data through various platforms, data processing, analyzing and dissemination of the data, modeling, quality control and analysis of data, spectrum analysis, operationalization and automation of high resolution models, development of user specific operational oceanographic products, digitization of historical data, archiving, retrieving and maintenance of the heterogeneous oceanographic/atmospheric data collection platforms and communication systems. Also includes interaction with various user community including research and academia, carry out various R&D projects as per the mandate of the organisation and as assigned by Director, ESSO-INCOIS / Group Head / Scientist In-charge.
- Director, ESSO-INCOIS reserves the right to cancel the recruitment process without assigning any reason thereof or vary the number of posts to be filled under each category.
- **Travel :** No TA will be paid by INCOIS for attending Written Test / Interview. INCOIS will not be responsible for any other arrangements.
- The names of candidates screened-in and screened-out for written test/interview will be displayed at http://www.incois.gov.in/jobs/index.jsp for all posts.

Application Procedure:

- The entire application procedure is made online.
- Copies of certificates in support of educational qualifications, date of birth, disability (OH, Ph), caste (SC / ST / OBC certificates should be in the central government prescribed format. Submission of BC certificates will not entitle the candidate with the applicable relaxations provided to OBC candidates.), experience, no objection certificates, scanned signatures, passport size photograph, etc. should be uploaded during the online application process. Passport size **Photograph, Signature should be in .jpg format with file size limit between 10KB to 100KB; remaining all certificates should be in .pdf format of each file less than 500 KB.** Hence, candidates are advised to be ready with all individual scanned documents of their certificates of educational & professional qualifications, marks memos, reservation certificate, if applicable, proof of date of birth, experience certificates, no objection certificates, scanned signature, passport size photograph etc. before starting the online application. *Production of the original certificates is must while appearing for written test / Interview. Applications submitted without the scanned copies of the relevant certificates, signature and passport size photograph will be rejected in the screening process itself. The certificates uploaded should be clearly visible and readable.*
- **Any discrepancies found in the certificates or uploading of wrong certificates will attract the disqualification of applications. Non-production of the original certificates at the time of written test / interview will also make the candidate disqualified and they will not be allowed for Written Test / Interview. Candidates currently working in any other organisation need to provide the proof of their current employment with a service certificate from the employer / latest pay slip, etc. <u>Appointment orders /resumes will not be considered as proof of current employment. In addition, the experience certificates should clearly show the date of joining and date of resignation. In case the screening committee is unable to get the documentary evidence for the number of years of experience claimed by the candidate for such periods of experience will be considered as NIL.</u>**
- Incomplete applications in any respect are liable to be rejected summarily. No representation against such rejection will be entertained.
- Applicants can apply for more than one post through a separate application to be submitted online along with the necessary supporting scanned documents.
- Canvassing in any form will be a disqualification.
- Initial Place of Posting: Hyderabad or anywhere in India.

Instructions to Candidates for filling Online Application:

- 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 http://www.incois.gov.in/jobs/index.jsp.

- Submit online application well before the **last date (31ˢᵗ August, 2018)** along-with legible and scanned copies of educational qualification, experience certificates, date of birth, disability (OH, PH), caste (ST/ST/OBC) certificate, Ex-servicemen Certificate, No Objection Certificate in **.pdf format not exceeding 500KB** 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.**

- A recent passport size photograph (scanned) should be in **.jpg format** (**with file size limit between 10KB to 100KB**).

- Signature (scanned) should be in **.jpg format** (**with file size limit between 10KB to 100KB**)

- The applicants are advised to fill in all their particulars carefully in the online application.

- Incomplete application shall be rejected.

- Applicants are advised to retain the acknowledgement and printout of the submitted online application for future reference.

- In case of difficulty in the submission of online application form only, please e-mail the queries to **vacancies@incois.gov.in**

- Date of closure of online application is **31ˢᵗ August, 2018**

Director, ESSO-INCOIS
Advt No:ESSO/INCOIS/RMT:03/2018