

Advt. No. NCAOR/77/17  
**ESSO-National Centre for Antarctic & Ocean Research**  
Earth System Science Organization (ESSO)  
(An Autonomous Society under the *MINISTRY OF EARTH SCIENCES*, Govt. of India)  
Headland Sada, Mormugao, Vasco-da-Gama, Goa – 403 804 ([www.ncaor.gov.in](http://www.ncaor.gov.in))

The Director, NCAOR invites online applications from eligible and prospective Indian Nationals for filling up the following positions on temporary contract basis at NCAOR.

Sl. No.	Name of the post	Consolidated emoluments (*)	Reservation				Total posts	Max. Age.
			UR	SC	ST	OBC		
1	Project Scientist C	Rs. 65000+HRA as applicable	12	-	-	-	12	40
2	Project Scientist B	Rs. 55000 +HRA as applicable	19	04	02	08	33	35

Note: One post of Project Scientist B is suitable for PH (OH)  
(\* ) Emoluments subject to revision.

For eligibility and other conditions applicants may visit website [www.ncaor.gov.in](http://www.ncaor.gov.in). The last date of submission of online application is 30 days from the date of publication of this advertisement in Employment News.

**Sd/-**  
**(S.Anoop)**  
**Administrative Officer**

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Headland Sada, Vasco-da-Gama, Goa – 403 804.

The National Centre for Antarctic & Ocean Research (NCAOR), an Autonomous Society under the Ministry of Earth Sciences, Govt. of India, New Delhi, is the nodal agency responsible for planning, co-ordinating and executing the Indian Polar and Ocean Research Programme. In addition, the Centre has a well-focused scientific mandate of basic and applied research in various disciplines and themes of polar and ocean sciences. For details about NCAOR activities are available at [www.ncaor.gov.in](http://www.ncaor.gov.in)

Director, NCAOR invites applications from eligible and prospective candidates of Indian Nationals, for filling up of below posts under the various scientific projects on contract basis.

Sl. No.	Name of the post	Consolidated emoluments (*)	Reservation				Total posts	Max. Age.
			UR	SC	ST	OBC		
1	Project Scientist C	Rs. 65000/-+HRA as applicable	12	-	-	-	12	40
2	Project Scientist B	Rs. 55000/- +HRA as applicable	19	04	02	08	33	35

Note:- One post of Project Scientist B is suitable for PH (OH)  
 (\*) Emoluments subject to revision.

The details about the positions, pay, academic qualifications, responsibilities, format of application and other general conditions are given below:

Project	<b>Hydrothermal Program</b>
Name of the Post	: <b>Project Scientist C</b>
Post Code	: 01
Number of Posts	: 01
Emoluments	: Rs. 65000/- (Consolidated) + HRA as applicable
Age	: 40 Yrs
Eligibility Criteria	: <b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Marine Science or Marine Biology or its equivalent or Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level. <b>Experience:</b> (i) Three years of experience in teaching (at graduate or post-graduate level)/ research & development/survey/administration, planning/supervision or training etc. in the fields of Marine Microbial Ecology and Biogeochemistry supported by scientific publications. (ii) Experience in Scientific Expeditions and related data analysis.
	: <b>Desirable:</b> (i) Ph.D Degree in the relevant subject or area of specialization and experience in handling zooplankton samples for taxonomic studies. (ii) Demonstrated excellence in research reflected by publications in peer-reviewed journals

Job Requirement	:	(i) To play an active role in all facets of the work related to the Hydrothermal project, participation in scientific cruises, data acquisition/water and sediment sample analysis/interpretation. (ii) Analytical and laboratory work. (iii) Any other scientific/technical jobs that may be assigned from time to time.
Project	:	<b>Hydrothermal Program</b>
Name of the Post	:	<b>Project Scientist C</b>
Post Code	:	02
Number of Post	:	01
Emoluments	:	Rs. 65000/- (Consolidated) + HRA as applicable
Age	:	40 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Chemistry/Chemical Sciences/Chemical Oceanography or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level. <b>Experience:</b> (i) Three years of experience in teaching (at graduate or post graduate level)/research & development/ survey/ administration/ planning/ supervision or training etc. in the field of hydrothermal exploration relevant to the nature or responsibilities. (ii) Experience in participation of Scientific Expeditions, Sample Collections and analysis of chemical parameters, data analysis and interpretation.
	:	<b>Desirable:</b> (i) PhD in relevant field (ii) Experience in analysis of major, trace and rare earth elements, isotopes etc. and in extraction of dissolved gases, trace metals from seawater etc.
Job Requirement	:	(i) To play an active role in work related to the Hydrothermal project & participation in scientific cruises for marine data/sample collection analysis etc. (ii) Analysis of seawater and sediment samples for identification of plume locations and hydrothermal deposits, development of baseline environmental data.
Project	:	<b>Cryosphere and Climate</b>
Name	:	<b>Project Scientist C</b>
Post Code	:	03
Number of Posts	:	01
Emoluments	:	Rs. 65000/- (Consolidated) + HRA as applicable
Age	:	40Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters degree in Geology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level. <b>Experience:</b> (i) Three years experience in teaching at graduate or post graduate level/ research and development, survey, administration, planning, supervision or training etc in the fields of Antarctic snow and ice chemistry research, supported by scientific publications. (ii) Experience in polar scientific expeditions and related data analysis

	:	<b>Desirable:</b> (i) Ph.D in the relevant subject related to Antarctic snow and ice chemistry research from recognized university or equivalent. (ii) Demonstrated excellence in research and publications on Antarctic snow and ice chemistry in international peer-reviewed journals.
Job Requirement	:	(i) To play and active role in all facets of the work related to the Cryosphere and climate project, participation in expeditions to Antarctica and other polar regions, ice core drilling/sample analysis/data interpretation and publication.
Project		<b>Cryosphere and Climate</b>
Name	:	<b>Project Scientist C</b>
Post Code	:	04
Number of Posts	:	01
Emoluments	:	Rs. 65000/- (Consolidated) + HRA as applicable
Age	:	40 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters degree in Physics or its equivalent or Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level. <b>Experience:</b> (i) Three years experience in teaching at graduate or post-graduate level/ research and development/ survey/ administration/ planning, supervision or training etc in the fields of glacier mass balance studies using glaciological and geophysical techniques, supported by scientific publications. (ii) Experience in Himalayan scientific expeditions and related data analysis.
	:	<b>Desirable:</b> (i) Ph.D in the relevant subject related to Himalayan glaciology from recognized university or equivalent. (ii) Demonstrated excellence in research and publications on Himalayan glaciology in peer-viewed international journals.
Job Requirement	:	To play an active role in all facets of the work related to the Cryosphere and climate project, leading expeditions to Himalaya and other polar regions, geophysical data acquisition / data interpretation and publications
Project	:	<b>Limnological investigation of Antarctic Lakes</b>
Name	:	<b>Project Scientist C</b>
Post Code	:	05
Number of Post	:	01
Emoluments	:	Rs. 65000/- (Consolidated) + HRA as applicable
Age	:	40 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Master's degree in Earth Science/Geology/Applied Geology/Marine Geology/ Marine Science or its equivalent or Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level. <b>Experience:</b> (i) Three years experience in teaching at graduate or post graduate level/ research and development/survey/administration/planning/supervision or training etc in the specified fields related to the project. ii) Experience in polar scientific expeditions and related data analysis.
		<b>Desirable:</b> (i) Masters degree in engineering or technology or PhD in the relevant branch of science related to Marine Science/Earth Science/Oceanography or any other

		subject specified as per the requirement from recognized university or equivalent. (ii) Experience in policy making, planning or management related to Antarctic activities or management etc related to Antarctic Science and Published work in peer- reviewed journals.
Job Requirement	:	To play an active role in all facets of the work related to the project, participation in expeditions to Antarctica and sample collection/data interpretation and publication.
Project	:	<b>Indian Scientific Expedition to Southern Ocean</b>
Name of the Post	:	<b>Project Scientist C</b>
Post Code	:	06
Number of Post	:	01
Emoluments	:	Rs. 65000/- (Consolidated) + HRA as applicable
Age	:	40 Yrs
Eligibility Criteria	:	<p><b>Essential:</b></p> <p><b>Qualification:</b> (i) Master's degree in Physics/ Marine Sciences/ Oceanography/Meteorology/Atmospheric Science or its equivalent or Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level .</p> <p><b>Experience:</b> (i) Three years of experience in teaching (at graduate or post-graduate level)/ research &amp; development/survey/administration/planning/supervision or training etc. in the specific fields (i.e. in hydrodynamics studies of polar waters or climate variability, analysis of climate data or ocean atmosphere interactions, atmospheric data analysis). (ii) Experience in scientific cruise participation, oceanographic data collection, analysis and its interpretation. Knowledge of handling and operation of oceanographic and atmospheric instruments/Experience in atmospheric data analysis.</p>
		<p><b>Desirable:</b> (i) Masters degree in Engineering or Technology or PhD in Marine Science/ Physical Oceanography from recognized university or equivalent. (ii) Research exposure as documented by publication record and experience in policy making, planning or management related to oceanic activities or management etc related to specific field.</p>
Job Requirement	:	To play an active role in all facets of the scientific programmes related to Southern Ocean, participation in scientific cruises, analytical and laboratory work.
Project	:	<b>Indian Scientific Expedition to Southern Ocean</b>
Name of the Post	:	<b>Project Scientist C</b>
Post Code	:	7&8
Number of Posts	:	02
Emoluments	:	Rs. 65000/- (Consolidated) + HRA as applicable
Age	:	40 Yrs
Eligibility Criteria	:	<p><b>Essential:</b></p> <p><b>Qualification:</b> (i) Master's degree in Marine Sciences/Marine Chemistry /Oceanography or its equivalent or Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.</p> <p><b>Experience:</b> (i) Three years of experience in teaching (at graduate or post graduate level)/ research&amp;development/survey/administration/planning/supervision or training</p>

		etc. in the specific fields of biogeochemistry of Suspended Particulate Organic Matter or Carbon Cycle, nutrient cycle in the Polar Oceans. (ii) Experience in participation of Scientific Expeditions, Sample Collections and analysis of chemical parameters, data analysis and interpretation.
		<b>Desirable :</b> (i) Masters degree in Engineering or Technology or PhD in Marine Science/Marine Chemistry/Marine Geology from recognized university or equivalent. (ii) Research exposure as documented by publication record. (iii) Experience in handling of instruments like total Organic carbon analyser, Autoanalyser, Coulometer, Potentiometer, etc and experience in policy making, planning or management related to oceanic activities or management etc related to specific field.
Job Requirement	:	Participation in scientific cruises; marine data acquisition processing analyses and interpretation.
Project		<b>Indian Scientific Expedition to Southern Ocean</b>
Name of the Post	:	<b>Project Scientist C</b>
Post Code	:	9&10
Number of Posts	:	2
Emoluments	:	Rs. 65000/- (Consolidated) + HRA as applicable
Age	:	40 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Master's degree in Marine Biology/Zoology from a recognized university or its equivalent or Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level. <b>Experience:</b> (i) Three years of experience in teaching (at graduate or post graduate level)/ research & development/survey/administration/planning/supervision or training etc. in the specific fields (i.e. in Polar Ocean phytoplankton ecology, biogeography and taxonomy/Polar Ocean Zooplankton biogeography). (ii) Experience in participation of Scientific Expeditions and data analysis.
		<b>Desirable:</b> (i) Masters degree in Engineering or Technology or Ph.D in Marine Science/Marine biology/Zoology from recognized university or equivalent. (ii) Phytoplankton culturing experience, zoo-phytoplankton grazing experiments. (iii) Research exposure as documented by publication record and experience in policy making, planning or management related to oceanic activities or management etc related to specific field.
Job Requirement	:	To play an active role in all facets of the scientific programmes related to ocean science, participation in scientific cruises, analytical and laboratory work
Project	:	<b>CLCS</b>
Name of the Post	:	<b>Project Scientist C</b>
Post Code	:	11
Number of Post	:	01
Emoluments	:	Rs 65,000 /- (Consolidated) +HRA as applicable
Age	:	40Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Geoinformatics/ Geospatial Studies or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.

		<b>Experience:</b> (i) Three years of Research & Development experience in Geophysical data processing, interpretation; and exposure to GIS with programming skills.
		<b>Desirable:</b> (i) Knowledge of geospatial modeling using GIS software, knowledge of UNCLOS provisions.
Job Requirement	:	To play an active role in the work program related to the CLCS project & participation in scientific cruises; marine data acquisition, processing and interpretation, GIS data management leading to scientific publications.
Project	:	<b>Indian Arctic Programme</b>
Name of the Post	:	<b>Project Scientist C</b>
Post Code	:	12
Number of Post	:	01
Emoluments	:	Rs. 65,000/- (Consolidated) +HRA as applicable
Age	:	40 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Microbiology/Biotechnology/Marine Science or Marine Biology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level. <b>Experience:</b> (i) Three years of experience in teaching (at graduate or post graduate level)/ research & development/survey/administration/planning/supervision or training etc in the fields of Marine Microbial Ecology and Biogeochemistry supported by scientific publications.
	:	<b>Desirable:</b> (i) Ph.D Degree in the relevant subject or area of specialization. (ii) Demonstrated excellence in research and publications in peer-reviewed journals.
Job Requirement	:	(i) To play an active role in all facets of the work related to the Arctic programme, participation in research expeditions, data acquisition/water and sediment sample analysis/interpretation. (ii) Any other scientific/technical jobs that may be assigned from time to time.
Project	:	<b>CLCS</b>
Name of the Post	:	Project Scientist B
Post Code	:	13
Number of Posts	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Master's Degree in Geophysics/ Applied Geophysics / Geology / Applied Geology /Marine Geology/Marine Sciences/Earth Sciences/ Geoinformatics/ Geospatial Studies or its equivalent <b>or</b> Bachelor's Degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
		<b>Desirable:</b> (i) Two years of Research & Development experience in the relevant field of Geospatial modeling using GIS software, knowledge of UNCLOS provisions. (ii) Knowledge of Geophysical data processing, interpretation; potential field data modeling; tomographic modeling and inversion and exposure to UNIX/LINUX/GIS

		with programming skills.
Job Requirement	:	To play an active role in the work program related to the CLCS project & participation in scientific cruises; marine data acquisition, processing and interpretation, GIS data management leading to scientific publications.
Project	:	<b>Deep Crustal Studies</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	14
Number of Posts	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Geophysics/ Applied Geophysics / Geology / Applied Geology /Marine Geology/Marine Sciences/Earth Sciences or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i)Two years of Research &Development experience in the relevant field. (ii)Knowledge of Geophysical data processing, interpretation; potential field data modeling; tomographic modeling and inversion, earthquake seismology, analyses of sediment/rock cores, petrography, structural geology and exposure to UNIX/LINUX/GIS with programming skills.
Job Requirement	:	To play an active role in the work program related to the project & participation in scientific cruises; marine data acquisition, processing and interpretation, analyses of sediment and hard rock cores; GIS data management leading to scientific publications.
Project	:	<b>Scientific drilling in the Indian Ocean through IODP</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	15
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i)Masters Degree in Geology/Applied Geology/Marine Geology/ Marine Sciences/Earth Sciences or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i)Two years of Research &Development experience in the relevant field e.g. analyses of sediment/rock cores, petrography, geochemistry, geochronology, structural geology. (ii)Knowledge of sediment and/or hard rock petrography, geochemical data modeling and interpretation.
Job Requirement	:	To play an active role in the work program related to the project & participation in scientific cruises; analyses of core samples leading to scientific publications.
Project	:	<b>Cryosphere and Climate</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	16
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable



Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters degree in Geoinformatics/Geospatial Science and Technology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of relevant Research &Development experience in Himalayan glaciology using remote sensing data, evidenced by publications in peer-reviewed journals. (ii) Physical fitness and experience field work on high altitudes of Himalayan glaciers.
Job Requirement	:	(i) To play an active role in all facets of the work related to the Cryosphere project using remote sensing data, participation in expeditions, data acquisition /analysis /interpretation and publication.
Project	:	<b>Cryosphere and Climate</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	17
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i)Masters Degree in Remote Sensing and GIS or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years relevant Research &Development experience in Himalayan glaciology using field techniques and geospatial data, as evidenced by publications in peer-reviewed journals. (ii)Physical fitness and experience field work on high altitudes of Himalayan glaciers.
Job Requirement	:	To play an active role in all facets of the Cryosphere project through participation in glaciological expeditions, data acquisition/analysis /interpretation and publication.
Project	:	<b>MADICE</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	18
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Master degree in Earth Sciences or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks at the qualifying degree level.
	:	<b>Desirable:</b> (i)Two years of relevant Research &Development experience in Antarctic glaciology using geophysical and modeling techniques. (ii) Physical fitness and experience in Antarctic glaciological studies.

Job Requirement	:	To play an active role in all facets of the project through participation in Antarctic expeditions, geophysical data acquisition/analysis/interpretation and publication.
Project	:	<b>MADICE</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	19
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Master degree in Physics or its equivalent or Bachelors degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with at least 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of relevant Research & Development experience in polar glacier mass balance, energy balance and melt water routing modeling. (ii) Physical fitness and field experience in polar glaciological studies.
Job Requirement	:	To play an active role in all facets of the project through participation in glaciological expeditions, data acquisition/analysis/interpretation and publication.
Project	:	<b>Past Climate and Oceanic variability</b>
Name	:	<b>Project Scientist B</b>
Post Code	:	20
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Master's Degree in Marine Sciences/Geology/Applied Geology/Earth Science/Marine Geology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of relevant Research & Development experience in Southern Ocean paleoceanography/ paleoclimatology, proven by publication(s) in peer-reviewed journal(s) (ii) Experience in identification of siliceous microfossils from ocean sediments of polar waters.
Job Requirement	:	To play an active role in all facets of the work related to the project, participation in expeditions to Southern Ocean / Antarctica and sample collection/data interpretation and publications.
Project	:	<b>NCAOR Outreach Activities</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	21
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Physics/Chemistry/Earth Science/Geology/Botany/Zoology/Oceanography/Environmental Science or its equivalent <b>or</b> Bachelor's

		degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of experience in Research & Development with experience in the field of Outreach activities. (ii) Experience in handling exhibitions/ scientific outreach activities/ Managing scientific workshops and conferences.
Job Requirement	:	To play an active role in the outreach activities of ESSO-NCAOR and also contribute to work related to the project.
Project	:	<b>Geoscientific Studies of the Exclusive Economic Zone</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	22, 23, 24, 25
Number of Posts	:	04
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Geophysics/Applied Geophysics/ Marine Geophysics/ Geology/ Applied Geology / Earth Sciences or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its <u>equivalent</u> with atleast 60% marks in the qualifying degree level.
		<b>Desirable:</b> (i) Two years of experience in the field relevant to the nature of responsibilities with exposure to GIS with programming skills. (ii) Experience in participation in scientific cruises. (iii) Data analysis and interpretation of Multibeam bathymetric and backscatter
Job Requirement	:	(i) Data analysis and interpretation of the Multibeam bathymetric and backscatter data and integration of the results with other geophysical/geological data sets (ii) To play an active role in work related to the project & participation in scientific cruises, marine data acquisition and processing.
Project	:	<b>Geoscientific Studies of the Exclusive Economic Zone</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	26
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Earth Sciences/ Geology/Applied Geology or its equivalent or Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
		<b>Desirable:</b> (i) Two years of experience in the field relevant to the nature of responsibilities. (ii) Experience in various geological, analytical equipment and experience in scientific cruises.
Job Requirement	:	(i) Sedimentological and geochemical analysis of marine sediment samples. (ii) Analytical & Laboratory work for analysis and interpretation of the geological samples and other geological data sets. (iii) To play an active role in work related to the project & participation in scientific cruises, marine data acquisition and processing.

Project	:	<b>Hydrothermal Program</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	27
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<p><b>Essential:</b>  <b>Qualification:</b>  (i) Masters Degree in Marine Science/Physical Oceanography/Physics or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.</p>
	:	<p><b>Desirable:</b>  (i) Two years academic/ Research &amp;Development experience in the relevant field.  (ii) Experience in Scientific Cruise Participation, Physical Oceanographic data Processing / Data Analysis and Programming.</p>
Job Requirement	:	(i) Participation in Scientific Cruise for acquisition of physical oceanography data processing analysis and interpretation of physical oceanography data.
Project	:	<b>Hydrothermal Program</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	28
Number of Posts	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<p><b>Essential:</b>  <b>Qualification:</b>  (i) Masters Degree in Geophysics/Applied Geophysics/Marine Geophysics or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.</p>
	:	<p><b>Desirable:</b>  (i) Two years of experience in the field relevant to the nature of responsibilities.  (ii) Research and /or field experience in acquisition processing, interpretation and modeling of marine geophysical data with experience in Scientific Cruises</p>
Job Requirement	:	(i) To play an active role in work related to the project & participation in scientific cruises for marine data/sample collection and processing (ii) Analysis, interpretation and integration of gravity, magnetic, multibeam bathymetric, SSS and SBP data and integration of the results with other geophysical/geological data sets.
Project	:	<b>Hydrothermal Program</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	29
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<p><b>Essential:</b>  <b>Qualification:</b>  (i) Masters Degree in Microbiology/Biotechnology/Marine Biology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant</p>

		subject from a recognized university or its equivalent with atleast 60% marks at the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of experience in the field relevant to the nature of responsibilities (ii) Experience in molecular taxonomy of bacteria/ phytoplankton with experience in handling equipments like RT-PCR and HPLC.
Job Requirement	:	(i) To play an active role in work related to the project & participation in scientific cruises for data/sample collection analysis etc (ii)Undertaking work related to bacterial /phytoplankton taxonomy and ecology for baseline characterization and EIA in ridge systems.
Project		<b>Hydrothermal Program</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	30
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Geology/Applied Geology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of experience in the field relevant to the nature of responsibilities. (ii)Experience in thin section studies of rocks using microscope, SEM-EDS/EPMA.
Job Requirement	:	(i) To play an active role in work related to the project & participation in scientific cruises for sample collection, analysis etc. (ii) Petrographic/Mineralogical studies of various rocks/ores.
Project	:	<b>Hydrothermal Program</b>
Name of the Post	:	Project Scientist B
Post Code	:	31
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Geology/Applied Geology/Geological Sciences or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast first class (60%) marks at the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of experience in the field relevant to the nature of responsibilities. (ii) Experience in Geochemical analysis of marine sediments using SEM-EDS, XRF etc.
Job Requirement	:	(i) To play an active role in work related to the project & participation in scientific cruises for sample collection, analysis etc. (ii) Geochemical and sedimentological analysis of marine sediment samples.

Project	:	<b>Satellite-based Digital Elevation Model for monitoring Antarctic Ice topography,</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	32
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<p><b>Essential:</b>  <b>Qualification:</b>  (i) Masters Degree in Geoinformatics(with GIS &amp; Remote Sensing)or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60%marks in the qualifying degree level.</p>
	:	<p><b>Desirable:</b>  (i) Two years of relevant Research &amp;Development experience in geomatic, geospatial, remote sensing techniques, proven by publication(s) in peer-reviewed journal(s)  (ii)Physical fitness to participate in expeditions to Arctic/Antarctica/Himalaya.  (iii)Hands on experience in field survey and lab-based processing of satellite/airborne remote sensing data for cryospheric mass balance with experience in generation of Digital Elevation Models, surface classification maps using high resolution satellite data.</p>
Job Requirement	:	To undertake geospatial based glaciological research, including processing and interpretation of various types of satellite data, development of algorithms, generation of DEM for glacier mass balance, spatial and spectral validation and validation satellite data.
Project	:	<b>Long term monitoring of Kongsfjorden for climate change studies</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	33
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<p><b>Essential:</b>  <b>Qualification:</b>  (i) Masters Degree in Marine Sciences/Oceanography/Atmospheric Science or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast first class (60%) marks in the qualifying degree level.</p>
	:	<p><b>Desirable:</b>  (i)Two years experience in hydrodynamics studies/Modeling of Arctic Ocean/Fjords, modelling/theoretical/ observational studies of atmospheric processes in the Arctic region.</p>
Job Requirement	:	<p>(i) To play an active role in all facets of the work program related to the project; participation in scientific; expeditions data acquisition/quality check and processing and modeling.  (ii) Any other scientific/technical jobs that may be assigned from time to time.</p>

Project	:	<b>Long Term Monitoring of Precipitation and Clouds in Arctic</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	34 & 35
Number of Posts	:	02
Emoluments	:	Rs. 55000/- (Consolidated) + HRA as applicable
Age	:	35Yrs
Eligibility Criteria	:	<b>Essential: Qualification:</b> (i) Masters Degree in Meteorology/ Oceanography/ Physics/ Applied Mathematics or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years experience in Climate modeling/ climate variability studies (ii) Experience in handling of in-situ observational data, quality checking and working with Fortran language/MATLAB/Python Programming.
Job Requirement	:	(1) To play an active role in all facets of the work program related to the project, participation in scientific expeditions, data acquisition, processing and interpretation. (2) Any other scientific/technical jobs that may be assigned from time to time.
Project	:	<b>National Polar Data Centre</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	36& 37
Number of Posts	:	02
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential: Qualification:</b> (i) Master's Degree in Computer Sciences/Computer Science & Engg./Information Technology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized University or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) M.E/M.Tech in Computer Science/Computer Science & Engineering /Information Technology from a recognized University/Institute with atleast first class(60% of marks) in the qualifying degree (ii) Two years experience/ knowledge in the development of Scientific/Web Applications using Java, Struts, HTML, CSS, JavaScript, jQuery, Ajax, Database: Oracle/MySQL/PostgreSQL and Linux internals etc.
Job Requirement	:	To play an active role in all facets of the work program related to the NPDC project; Data management, Quality control and processing of various data.
Project	:	<b>Environmental Impact Assessment of Anthropogenic Activities at Indian Polar Stations</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	38&39
Number of Posts	:	02
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Eligibility Criteria	:	<b>Essential: Qualification:</b> (1) Master Degree in Chemistry / Environmental Science /Atmospheric

	Science /Microbiology /Marine Science/ Chemical Engineering or its equivalent or Bachelor of Engineering/Technology in the relevant subject from a recognized university or its equivalent with at-least 60% marks in the qualifying degree level.
	: <b>Desirable:</b> (1) Two years of academic/ Research &Development experience in the relevant field. (2) Experience in modeling/analytical techniques related to air/water/sediment sample and instrument operation particular in gas chromatography and spectrometry.
Job Requirement	: To play an active role in all facets of the work program related to the project, participation in scientific expeditions, data acquisition, processing and interpretation.
<b>Project</b>	: <b>Indian Arctic Programme</b>
Name of the Post	: <b>Project Scientist B</b>
Post Code	: 40
Number of Post	: 01
Emoluments	: Rs.55000/- (Consolidated) +HRA as applicable
Age	: 35 Yrs
Eligibility Criteria	: <b>Essential:</b> <b>Qualification:</b> (i) Masters Degree in Biotechnology/Microbiology or Marine Biology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	: <b>Desirable:</b> (i) Two years of academic Research and Development in the field of bacterial taxonomy
Job Requirement	: Logistics and scientific work in Arctic region.
<b>Project</b>	: <b>Hydrothermal Program</b>
Name of the Post	: <b>Project Scientist B</b>
Post Code	: 41
Number of Post	: 01
Emoluments	: Rs.55000 /- (Consolidated) +HRA as applicable
Age	: 35 Yrs
Eligibility Criteria	: <b>Essential:</b> <b>Qualification:</b> (i) Master's Degree in Marine Science/Physical Oceanography/Physics or its equivalent <b>Or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	: <b>Desirable:</b> (i) Two years academic/ Research &Development experience in the relevant field. (ii) Experience in CTD Operations or and other Physical Oceanographic instruments, experience in Data Processing / Data Analysis and Programming, Experience in Scientific Cruises.
Job Requirement	: Participation in Scientific Cruise for acquisition of physical oceanography data, processing, analysis and interpretation of physical oceanography data.



Project	:	<b>Hydrothermal Program</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	42
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<p><b>Essential:</b>  <b>Qualification:</b>  (i) Master's Degree in Electronics &amp; Communication/Electronics &amp; Instrumentation Engineering /Technology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with at least 60% marks in the qualifying degree level.</p>
	:	<p><b>Desirable:</b>  (i) Two years' experience in operation/maintenance/handling of marine oceanographic equipment or scientific analytical instruments.</p>
Job Requirement	:	<p>(i) To participate in scientific cruises and assist in operation and maintenance of various marine oceanographic equipment.  (ii) To operate, maintain and upkeep of sophisticated analytical equipment and assist in the Chemical/instrumental analysis of samples.</p>
Project	:	<b>Hydrothermal Program</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	43
Number of Post	:	01
Emoluments	:	Rs.55000/- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<p><b>Essential:</b>  <b>Qualification:</b>  (i) Masters Degree in Computer Sciences/Computer Science &amp; Engg/Information Technology or its equivalent <b>or</b> Bachelor's degree in Engineering or Technology in the relevant subject from a recognized University or its equivalent with atleast 60% marks in the qualifying degree level.</p>
	:	<p><b>Desirable:</b>  (i) M.E/M.Tech in Computer Science/Computer Science &amp; Engineering /Information Technology from a recognized University/Institute with atleast 60% of marks in the qualifying degree  (ii) Two years experience/ knowledge in the development of Scientific/Web Applications using Java, Struts, HTML, CSS, JavaScript, jQuery, Ajax, Database: Oracle/MySQL/PostgreSQL and Linux internals etc.</p>
Job Requirement	:	To play an active role in all facets of the work program related to development and maintenance of Geoscientific database.
Project	:	<b>Cryosphere and Climate</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	44
Number of Post	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs

Eligibility Criteria	:	<b>Essential: Qualification:</b> (i) Master degree in Earth Sciences or its equivalent <b>or</b> Bachelors degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of relevant Research &Development experience in glaciology/hydrology, as evidenced by publication(s) in peer-reviewed journals. (ii) Physical fitness and experience field work on high altitudes of Himalayan glaciers.
Job Requirement	:	To play an active role in all facets of the Cryosphere project through participation in glaciological expeditions, data acquisition /analysis /interpretation and publication.
Project	:	<b>Cryosphere and Climate</b>
Name of the Post	:	<b>Project Scientist B</b>
Post Code	:	45
Number of Posts	:	01
Emoluments	:	Rs.55000 /- (Consolidated) +HRA as applicable
Age	:	35 Yrs
Eligibility Criteria	:	<b>Essential: Qualification:</b> (i) Master degree in Chemistry or equivalent <b>or</b> Bachelors degree in Engineering or Technology in the relevant subject from a recognized university or its equivalent with atleast 60% marks in the qualifying degree level.
	:	<b>Desirable:</b> (i) Two years of relevant Research &Development experience in biogeochemistry of snow and other supraglacial ecosystems, as evidenced by publication(s) in peer-reviewed journals. (ii) Physical fitness and experience in Antarctic field studies.
Job Requirement	:	To play an active role in all facets of the Cryosphere project through participation in polar expeditions, data acquisition/analysis/interpretation and publication.

**General Conditions:**

1. The last date of submission of online application is **21<sup>st</sup> November 2017 by 05:00pm**. The last date is the cutoff date for all purposes including Age/Qualification/experience etc.
2. Applications should be submitted online in the prescribed format within 30 days from the date of publication of this advertisement in Employment Newspaper.
3. Age relaxation in case of SC / ST / OBC /PH candidates will be as per Govt. of India norms and upto 5 years for persons serving on regular basis in Government organizations/Autonomous bodies/PSUs.
4. The Secretary, MoES / Chairman, ESSO-NCAOR Governing Council may relax the upper age limit for all categories of posts in case of highly experienced candidates in specialized scientific / technical areas.
5. The prescribed essential qualifications are minimum and the mere possession of the same does not entitle candidates to be called for interview. 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 all those candidates. The Centre may restrict the number of candidates to be called for interview to a reasonable limit of 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 benchmark decided by a committee constituted to screen the applications. No correspondence will be entertained with candidates who are not called for Interview.

6. Canvassing in any form and /or bringing any influence, political or otherwise will be treated as disqualification of candidature. No interim correspondence/inquiry will be entertained.
7. Candidates working in Government/Public Sector Undertakings/ Autonomous bodies should apply through proper channel. If application is not routed through proper channel, the candidate must produce the requisite 'No Objection Certificate' from their employer at the time of interview.
8. Experience will be counted after completion of essential academic qualifications while a completed doctorate degree will be counted as three years experience. In case a candidate has obtained the above 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.
9. Doctorate degree will count as 3 years experience
10. Online application submitted without the scanned copies of the certificates will be rejected.
11. The selected candidates are liable to serve anywhere in India and outside.
12. Out-station candidates called for interview will be paid to-and-fro Sleeper-class railway/Bus fare by the shortest route on production of proof of journey tickets etc. The candidates need to make their own stay arrangements. NCAOR will not be responsible for any accommodation arrangements.
13. Director, NCAOR has the right to cancel the recruitment process at any stage, without assigning any reason thereof or vary the number of posts to be filled under each category.
14. Director, NCAOR reserves the right to consider a candidate for higher or lower post/grade on the basis of the assessment during the selection process irrespective of the post for which candidate had applied.
15. On instances where candidates applied for higher post is found to be suitable for lower post, the duly constituted committee is empowered to consider such candidates for selection to a lower post or vice versa.
16. Discrepancies found in the certificate will attract the disqualification of applications. Non-production of the original certificates at the time of interview will also make the candidate disqualified. No travel reimbursement will be made to such candidates. 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 will not be considered as proof of current employment.
17. At present, the place of posting is at Goa with transfer liability to any part of India.

18. All project positions are purely temporary and on project mode and do not entitle the candidate for any claim for regular/ permanent position at any time.
19. The monthly emolument specified is approximate and may vary as per the guidelines issued by Competent Authority from time to time.
20. The full advertisement is available on our website '[www.ncaor.gov.in](http://www.ncaor.gov.in)' under career option.
21. **Application procedure:** The entire application procedure is online. Copies of certificates in support of educational qualifications, date of birth, disability (OH,PH), caste (SC/ST/OBC), experience, no objection certificates, digital signatures, photograph etc. should be uploaded alongwith the online application. All the uploaded document should be in the form of PDF file and photograph and signature in the form of .jpg format. Candidates must produce the original certificates while appearing for interview or as and when required. If the certificates are in a language other than English or Hindi, attested translation should be enclosed.
22. **How to apply:** To apply, the applicant must fill the online application form available at ESSO-NCAOR website [www.ncaor.gov.in](http://www.ncaor.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.
23. Applicants are requested to carefully go through the full text of the advertisement and the instructions in particular.
24. In case of any difficulty in the submission of online application form (not for other queries), please email to [ictd@ncaor.gov.in](mailto:ictd@ncaor.gov.in)
21. Instructions to Applicants for submission of online Application:
- i. Online application form & details of recruitment of the Post is available at <http://www.ncaor.gov.in>.
  - 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 <http://www.ncaor.gov.in>.
  - iii. Submit online application well in advance along-with legible and 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 100 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 exceeding 100 KB).
  - v. Signature (scanned) should be in .jpg format (size not exceeding 100 KB)
  - 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 printout of the submitted online application for future reference.
  - viii. In case of difficulty in the submission of online application form please email to [ictd@ncaor.gov.in](mailto:ictd@ncaor.gov.in).

**Sd/-**  
**(S.Anoop)**  
**Administrative Officer**