



# Employment News



WEEKLY

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## JOB HIGHLIGHTS

### NHPC

- NHPC Limited requires 180 Trainee Engineers.

**Last Date : 21.01.2014**

### CISF

- Central Industrial Security Force requires 123 Constable (Bandsman-cum-GD).

**Last Date : 08.02.2014**

### DEPARTMENT OF POSTS

- Department of Posts requires 82 Multi Tasking Staff

**Last Date : 13.01.2014**

### AIIMS

- All India Institute of Medical Sciences, Patna requires 59 Registrar, Junior Engineer, Medical Physicist, Store Keeper etc

**Last Date : 31.01.2014**

### CEE

- Central Employment Exchange requires 32 Pharmacist, Navigational Assistant Grade II and Technician

**Last Date : 27.01.2014**

### FCI

- Food Corporation of India, Chennai invites applications for the posts of Assistant Grade III (General/ Depot) under sports quota.

**Last Date : 27.01.2014**

### ICF

- Integral Coach Factory invites applications for recruitment of 15 posts against sports quota.

**Last Date : 03.02.2014**

### NBE

- National Board of Examination requires 15 Multi Skill Assistants.

**Last Date : 60 days after publication**

### IGDTUW

- Indira Gandhi Delhi Technical University for Women requires 23 Professor, Associate Professor and Assistant Professors.

**Last Date : 20.01.2014**

### TMH

- Tata Memorial Hospital, Mumbai requires 15 Deputy Controller of Accounts, House Keeper, Kitchen Supervisor, Pharmacist 'B' etc.

**Last Date : 17.01.2014**

### ICW

- Indraprastha College for Women, Delhi requires Assistant Professors.

**Last Date : 25.01.2014**

## WEB EXCLUSIVES

Following item is available in the **Web Exclusives** section on [www.employmentnews.gov.in](http://www.employmentnews.gov.in) :

1. India's Light Combat Aircraft.

## CAREER OPPORTUNITIES IN INTERDISCIPLINARY AREAS OF OCEANOGRAPHY

O. S. Shekhar Singh

**O**ceanography, the science of oceans is the scientific study of all aspects of the ocean, their boundaries and their continents. As such it is an interdisciplinary science that integrates principles of Biology, Chemistry, Geology, Meteorology and Physics. Oceanography is today of great significance to developing countries. This is an exciting field offering the advantage of being involved with a variety of scientific disciplines and an opportunity for lifelong learning. Marine Science/Oceanography is a relatively new science. Research conducted in the twentieth century has given the scientific world the first global glimpse of how the oceans work. It is now known that the oceans, atmosphere, solid Earth and living organisms are part of an intertwined global system. Many oceanographers and limnologists conduct studies related to changes in this global system, both natural changes and those caused by human activities.

A career in this field is really a challenging one and it provides opportunity to those with intrinsic curiosity and a desire to venture into the vast realm of the unknown, which exists within our oceans. The work involves in the areas are collecting samples, conducting surveys, analyzing data using sophisticated equipment in the sea for long hours. Oceanographers study the motion and circulation of the ocean waters and their physical and chemical properties, and how these properties affect coastal areas, weather and climate. Often, they are physicists, chemists, geologists or biologists who bring their special skills to ocean studies. They apply the basic sciences to study the world's oceans and coastal waters. Being essentially a research-oriented profession, long periods are spent at the sea with all its challenges and hazards. Depending upon the areas of specialisation the main discipline of oceanography are; physical oceanography, geological oceanography, chemical oceanography and marine biology.

### Educational Qualification

Since this is a specialized field and therefore requires technical and academic skills. In our country some universities offering bachelor, master and doctorate degree in oceanography. For admission to B.Sc. general or honours, 10+2 with science either in non-medical or medical subjects with at least 50% marks is required. For master degree, a bachelor degree with marine science/oceanography as one of the subject is required with minimum 50% marks and for Ph.D. there is requirement of at least 55% marks in master degree. However, the rules for admission to bachelor, masters and research degree vary from university to university/institutes. Following courses can be undertaken in this field:

B. Sc. (Marine Sci.), M. Sc. (Marine Biology), M. Sc. (Marine Geology), M. Sc. (Marine Geophysics), M. Sc. (Chemical Oceanography), M. Sc. (Physical Oceanography), M. Sc. (Meteorology),

M. Sc. (Ocean Life Sciences), M Phil and Ph. D.

### Job Prospects

Career opportunities for ocean professionals are vast as well as varied. Those with right qualification can get employment in private sector, public sector and various governmental establishments as an engineer, scientist or a technician. In public sector one can find opportunities in Oil India. Government sector organisations include Geological Survey of India (GSI), Meteorological Survey of India (MSI), and Department of Oceanography etc. Many reputed companies in the private sector with interests in the marine industries, products or research also provide various job options for ocean professionals. Candidates with skill and ability can also choose teaching profession as career at higher level in reputed institutions as well as govt colleges and universities.

Since the study of oceanography often examines in detail all the different disciplines of oceanography, it is often described as being an interdisciplinary science, or one covering all the disciplines of science as they apply to the oceans. Thus, some of the most exciting work and best employment opportunities combine two or more of these disciplines. Individuals in oceanography and marine-related fields need a good background in at least one area of basic science (for example, geology, physics, chemistry, or biology) or engineering. In almost all cases, mathematics is required as well. Marine archaeology requires a background in archaeology or anthropology; marine policy studies require a background in at least one of the social sciences (such as law, economics, or political science). The careers in this interdisciplinary field are;

**Marine Biology:** Marine Biology is the field which studies life processes in marine environments. They study the ocean processes that control the productivity and distribution of marine life. This involves all aspects of plant and animal life in the sea. Marine biologists study the occurrence, distribution and development of plants and animals and how these are influenced by environmental factors.

**Physical Oceanography:** Physical oceanographers study the physical properties of water such as temperature, salt content and density and phenomena such as currents, waves and shores. They also study the interaction between the sea and the air above and how it influences the weather and climate. Issues such as global warming and the ozone layer are currently under investigation. Physical oceanographers investigate such ocean properties as temperature, density, wave motions, tides, and currents. Remote sensing is one of the important areas in this field. This field of work looks at the relationship between the sea, the weather and the climate.

**Geological Oceanography:** Geological and geophysical oceanographers

describe the shape and material of the seafloor. They involves the study of the surface and sub-surface, and geological and geophysical characteristics of coastal margins, for the selection of suitable locations of marine structures as well as the exploitation of the oceans mineral resources. They seek to understand the origin of seafloor sediments and rocks and their patterns in which they exist. They concerned with the processes involved in the formation of the sea floor and coastline, and current processes of erosion, sedimentation and silting. Prospecting for mineral deposits also occurs in the marine environment.

**Marine archaeologists:** They involved in the systematic recovery and study of material evidence, such as shipwrecks, graves, buildings, tools, and pottery remaining from past human life and culture that is now covered by the sea. They require a background in archaeology or anthropology.

**Coastal and Ocean Engineering:** This is the application of engineering techniques to the coastal zone. It is essentially a branch of civil engineering which interfaces with the marine sciences. It involves the development and maintenance of harbours, coastal recreational facilities, and inlet pipes for sea-water, effluent outfalls and the general management of the coastal zone.

**Marine Chemistry:** It deals with the composition and quality of water. Chemical oceanographers are interested in the distribution of chemical compounds and the many chemical interactions that occur in the ocean and the seafloor. The aim is to research and develop such technology that will be able to recover valuable elements from the sea. This area is also involved in developing methods of solving pollution problems in estuaries near-the-shore waters due to increasing population and industrial waste.

**Marine policy experts:** They combine their knowledge of oceanography and social sciences such as law, economics, political science or business to develop guidelines and policies for the wise use of the ocean and coastal resources. Marine policy studies require a background in at least one of the social sciences.

**Medical Research:** A new area in which graduates of oceanography programs, particularly biological oceanography programs, are finding employment is in medical research industries, including biotechnology. Information from current research is setting the stage for development of novel drugs that target marine engineers and technicians are needed to maintain oceanographic observation equipment, such as the complex arrays used in submersibles.

**Administrative Jobs:** Many oceanographers have administrative jobs, either with academic institutions or with government or private agencies. These oceanographers spend more time in the

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**CAREER OPPORTUNITIES...**

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office, writing reports and giving presentations on their recommendations. They also attend national and international conferences to keep abreast of developments in their fields.

**Alternate Careers:** An increasing number of marine science master's and doctorate degree holders are choosing so-called "alternative careers" as experts on the marine environment in almost any field where knowledge of the oceans is required. These careers may be found in government agencies at federal, state, and local levels; at places like aquariums; in law firms that need marine experts; in small businesses that seek aquaculturalists and mariculturalists; and in science journalism.

**Remuneration**

In the age of global revolution Oceanography is a well paid job. A person, who desires to pursue a career in this field, can expect a salary between 12,000-20,000/- per month in the beginning. However salaries of Ocean professionals vary depending upon their individual qualifications, experience, size and nature of the hiring institutes.

**Institutes Offering Courses;**

In the country, many universities/institutes are offering courses in Marine Science/Oceanography. Following is an indicative list of major universities/institutes offering the education in this field:

- National Institute of Oceanography, Goa
- Centre for Atmospheric and Oceanic Sciences (CAOS), Indian Institute of

- Science (IISc)
- Department of Marine Biology, Microbiology and Biochemistry, Cochin University of Science and Technology (CUSAT), Kerala
- School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), Kerala
- Kerala University of Fisheries and Ocean Studies (KUFOS), Kerala
- Faculty of Marine Sciences, Annamalai University, Tamil Nadu
- Marine Planktonology and Aquaculture Division, Department of Marine Science, Bharathidasan University, Tiruchirappalli
- Department of Marine Science, University of Calcutta (http://www.caluniv.ac.in/)
- School of Oceanographic Studies,

- Jadavpur University
- Centre for Ocean and Coastal Studies, University of Madras
- School of Energy Environment & Natural Resources, Madurai Kamaraj University, Tamil Nadu
- Berhampur University, Bhanja Bihar, Berhampur, Ganjam, Orissa
- Utkal University, Vanivihar, Bhubneshwar, Orissa
- Mangalore University, University Campus, Mangalagangothru, Karnataka
- Karnatak University, Pavate Nagar, Dharwad

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**NEWS DIGEST**

**■ Cabinet Decisions:**

- (i) The Union Cabinet has approved the proposal for setting up of National Cancer Institute (NCI) at a cost of Rs.2035 crore. It will be set up in the Jhajjar campus of All India Institute of Medical Sciences (AIIMS) New Delhi, located in Badhsa village, Jhajjar, Haryana. The project is expected to be complete in 45 months.
- (ii) The Cabinet Committee on Economic Affairs has approved the proposal of M/s. Axis Bank Limited for increase in foreign investment from 49 percent to 62 percent. The approval is subject to the condition that aggregate holding by foreign institutional investors does not exceeding 49 percent of the paid up equity share capital of the bank. The approval would result in foreign investment of about Rs.7, 250 crore in the country.
- (iii) The proposal of the Department of Agriculture, Ministry of Agriculture to amalgamate State Farms Corporation of India (SFCI) with National Seeds Corporation (NSC), both wholly owned (100% share) Public Sector Undertakings under this Department. The amalgamated entity will serve the interest of the farmers and the changing requirements of the Indian agricultural sector in a more effective way.
- (iv) The Cabinet Committee on Economic Affairs has approved the supply of coal to nine of the 24 units in which the development of coal blocks was delayed due to the 'Go-No-Go' Policy of the Ministry of Environment & Forests on Fuel Supply Agreement

- (FSA) basis subject to review/ readjustment. The additional coal supplies to these nine units would be for a period of three years, till September 30, 2016. While the coal quantities admissible under Tapering Linkage Policy will be supplied through FSA, the additional quantities will be supplied on Memorandum of Understanding (MoU) basis, subject to availability of coal.
- Light Combat Aircraft, 'Tejas' gets initial operational clearance for induction into Indian Air Force. Considered as important landmark on the roadmap of Indian Military Aviation, the occasion marks a culmination of this effort of 2450 sorties leading to clearance. 'Tejas' is a lightweight multi-role jet fighter developed by India under the LCA (Light Combat Aircraft) programme which began in 1980s to replace country's aging MiG-21 fighters. (for details see web-exclusive)
- In the fifth consecutive success of its flight trial, nuclear weapons capable Agni-III surface-to-surface ballistic missile was test-fired for its full range of a little over 3,000 km from the Wheeler Island, off the Odisha coast. This was the sixth trial of Agni-III and the fifth successful mission in a row.
- Jacques Kallis, one of the greatest South African cricketers announced his retirement from Tests after the second Test between India and South Africa. Kallis is the fourth highest run-getter (13,174), second highest century-maker (44) and second highest fielder with most catches (199).

**High Court of Delhi**

New Delhi

(website: www.delhihighcourt.nic.in)

**DELHI HIGHER JUDICIAL SERVICE EXAMINATION - 2013**  
**THE HIGH COURT OF DELHI** will hold examination for direct recruitment against 14 vacancies to Delhi Higher Judicial Service on **Sunday, the 06<sup>th</sup> April, 2014**. The examination shall be in two successive stages:-

- i) Delhi Higher Judicial Service Preliminary Examination (Objective type with 25% negative marking) for selection to the main examination; and
- ii) Delhi Higher Judicial Service Main Examination (Descriptive) for selection of candidates for calling for Viva Voce.

The Syllabus for the Preliminary (Objective) Examination shall be as follows :-

General Knowledge, Current Affairs, English Language and topics on Constitution of India, Evidence Act, Limitation Act, Code of Civil Procedure, Criminal Procedure Code, Indian Penal Code, Contract Act, Partnership Act, Principles governing Arbitration Law, Specific Relief Act, Hindu Marriage Act, Hindu Succession Act, Transfer of Property Act and Negotiable Instruments Act.

The Syllabus for the Main (Descriptive) Examination shall be as follows :-

Constitution of India, Evidence Act, Limitation Act, Code of Civil Procedure, Criminal Procedure Code, Indian Penal Code, Contract Act, Partnership Act, Principles governing Arbitration Law, Specific Relief Act, Hindu Marriage Act, Hindu Succession Act, Transfer of Property Act and Negotiable Instruments Act.

Detailed information about the pattern of the selection process etc. is given in the instructions annexed with the Application Form.

The time-scale of pay of members of the Delhi Higher Judicial Service is ₹ 51550-1230-58930-1380-63070 plus allowances as are admissible to officers working under the Government of the National Capital Territory of Delhi. A candidate shall be eligible to appear in the examination if he/she is (a) citizen of India; (b) a person who has practised as an advocate for not less than 7 years; (c) a person who has attained the age of 35 years but has not attained the age of 45 years as on 1st January, 2013.

Application form including the DHJSE Registration Form can be obtained against **Demand Draft / Pay Order (non-refundable)** in favour of **Registrar General, Delhi High Court, New Delhi payable at New Delhi for ₹ 1,000/-** for General Category candidates and ₹ 200/- for Scheduled Castes/Scheduled Tribes candidates on any working day from **06.01.2014 to 05.02.2014** between **10.30 A.M. & 1.00 P.M. and 2.00 P.M. & 4.00 P.M.** from the Filing Counter of Delhi High Court, or by sending a self addressed envelope of **38 cm X 25 cm** size with postage stamp of ₹ 90/- affixed on it alongwith

Demand Draft of ₹ 1,000/- for General Category candidates and ₹ 200/- for Scheduled Castes/Scheduled Tribes candidates in favour of **Registrar General, Delhi High Court, New Delhi payable at New Delhi** in an envelope addressed to Joint Registrar (Vig.), Delhi High Court, New Delhi, super imposed with words in bold letters, **"DHJS EXAMINATION - 2013"**. The prescribed Application Form alongwith instructions and DHJSE Registration Form will be sent to the candidate(s) by Speed Post/Registered Post subject to their fulfilling above said requirements and no enquiry/correspondence shall be entertained in this regard. Application on the prescribed form and the DHJSE Registration Form duly filled in should be sent by "Registered Post Acknowledgement Due" addressed to the Joint Registrar (Vig.), Delhi High Court, Sher Shah Road, New Delhi - 110003, by designation, in the envelope provided with the application form so as to reach him not later than **4.00 P.M. on 06.02.2014**. Applications can also be submitted personally at the Filing Counter of Delhi High Court on any working day between **10.30 A.M. & 1.00 P.M. and 2.00 P.M. & 4.00 P.M. till 06.02.2014**.

The number of vacancies to be filled in is 14. The break up of the vacancies is as under-

General	10
Scheduled Castes	01
Scheduled Tribes	03

The above vacancies are subject to outcome of WP(C) No. 256/2010 titled Keshav Kaushik vs. State (Govt. of NCT of Delhi) & Ors., WP(C) No. 367/2010 titled Narendar Kumar Chaudhry vs. State (Govt. of NCT Delhi) & Anr. and Transfer Case (Civil) No. 77/2011 titled Surender Pal Singh Chauhan vs. State (Govt. of NCT, Delhi) & Ors., pending in Supreme Court of India, and WP(C) No. 93/2011 titled Mukesh Kumar Maroria vs. High Court of Delhi & Anr. pending in Delhi High Court. Applications incomplete in any form or those not on the prescribed application form or not accompanied by the DHJSE Registration Form or received after the due date, are liable to be rejected summarily.

The candidates applying for the examination should ensure that they fulfill all the eligibility conditions for admission to the examination. Their admission at the stage of written examination and the interview / viva-voce for which they are admitted by this Court will be purely provisional, subject to their satisfying the prescribed eligibility conditions. If on verification at any time before or after the written examination and the Interview/ Viva-voce, it is found that they do not fulfill any of the eligibility conditions, their candidature for the examination shall stand cancelled without any notice or further reference.

**(SANGITA DHINGRA SEHGAL)**  
**REGISTRAR GENERAL**  
**EN 40/100**

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