

**National Centre for Antarctic & Ocean Research**  
(An Autonomous Society under the **MINISTRY OF EARTH SCIENCES**, Govt. of India)  
Headland Sada, Vasco-da-Gama, Goa - 403 804.

**Invites Nominations from Scientists / Researchers for forthcoming IODP expeditions**

The Director, National Centre for Antarctic & Ocean Research (NCAOR), on behalf of IODP-India invites nominations in a prescribed format along with detailed biodata and research/professional experience, from geoscientists / researchers working in established national institutions / organizations and universities, to participate in the forthcoming Integrated Ocean Drilling Program (IODP) expeditions 353 (**Indian Monsoon**) and 354 (**Bengal Fan**). NCAOR will provide the requisite financial support to the selected candidates towards their participation in the said expeditions. However It will be the responsibility of the candidates to obtain the necessary Visas/permissions from the countries of embarkation and disembarkation on their own. A scientific plan is mandatory for a successful nomination. Once nominated candidates will have to submit a detailed science plan along with sample data request which may also form a basis for collaborative research programs between their host organization and NCAOR.

Further details including last date of nominations can be obtained at [www.ncaor.gov.in](http://www.ncaor.gov.in) or by email to [iodp.india@ncaor.gov.in](mailto:iodp.india@ncaor.gov.in)

**Advt. No: NCAOR/74/13**

For and on behalf of NCAOR

Complete nominations may kindly be emailed to [iodp.india@ncaor.gov.in](mailto:iodp.india@ncaor.gov.in)

Information on forthcoming IODP Expeditions:

Exp. 353: Indian Monsoon Rainfall Expedition: 29<sup>th</sup> Nov, 2014 to 29<sup>th</sup> Jan, 2015

Based on IODP Proposal 795-Full2, the goal of this expedition is to obtain sediment sections from within the core region of Indian monsoon precipitation. Scientific objectives include (1) establish the sensitivity and timing of changes in monsoon circulation relative to external insolation forcing and internal boundary conditions including the export of latent heat from the southern hemisphere, the extent of global ice volume, and greenhouse gas concentrations; (2) understand the timing and condition under which monsoonal circulation initiated and evolved; (3) determine the extent to which Indian and East Asian monsoon winds and precipitation are coupled and at what temporal and geographic scales; and (4) better deconvolve the effects of tectonics and climate change on erosion and run-off.

Exp. 354: BENGAL FAN : (29 January to 31 March 2015)

Based on IODP Proposal 552-Full3 and will drill a transect of sites across the middle Bengal Fan to obtain a Neogene and late Paleogene record of Himalayan orogeny and climate. The objectives are to investigate interactions among the growth of the Himalaya and Tibet, the development of the Asian monsoon, and processes affecting the carbon cycle and global climate.

One deep penetration site aims to document the early stages of Himalayan erosion, the India-Eurasia collision, and the development of the Himalaya and Tibet. The transect will constrain the Neogene development of the Asian monsoon, its impact on sediment supply and flux, and allow quantitative studies of the interrelations of climate change and sediment accumulation. Sediments obtained will document (1) uplift history through erosional flux and deposition patterns and detailed geochronology of minerals, (2) Himalayan evolution from isotopic tracing of particle origin and age, and (3) environmental and climate conditions through sediment granulometry, mineralogy and geochemistry, organic matter composition and oxygen isotopes of microfossils.

Important Notes:

1. For more information on the above expeditions please visit [www.iodp.org](http://www.iodp.org) and use the link [iodp.tamu.edu/scienceops/](http://iodp.tamu.edu/scienceops/)
2. Applications in prescribed format (available on the website [www.ncaor.gov.in](http://www.ncaor.gov.in)) shall be considered.
3. Last date by which NCAOR receives nominations: 28<sup>th</sup> February, 2014.
4. A scientific plan is mandatory for a successful nomination. Once nominated candidates will have to submit a detailed science plan along with sample data request which may also form a basis for collaborative research programs between their host organization and NCAOR.

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