



NATIONAL CENTRE FOR ANTARCTIC AND OCEAN RESEARCH  
NORSK POLARINSTITUTT · NORWEGIAN POLAR INSTITUTE



*The National Centre for Antarctic & Ocean Research (NCAOR), an autonomous R & D organization under the Ministry of Earth Sciences, Government of India, New Delhi is the nodal agency for planning, co-ordinating and executing the Indian Antarctic and Arctic Programmes. For more information: [www.ncaor.gov.in](http://www.ncaor.gov.in).*

*The Norwegian Polar Institute (NPI), under the Norwegian Ministry of Environment, is Norway's main institution for research, environmental management and monitoring, mapping and field work in the polar regions. For more information: [www.npolar.no/en](http://www.npolar.no/en).*

## **Arctic/Antarctic Glaciology PhD studentship in Norway for Indian nationals**

In order to strengthen the field of polar glaciology in India, NCAOR, in collaboration with the Norwegian Polar Institute (NPI) is establishing two PhD studentships in Antarctic and Arctic glaciology. Applications are invited from young and enthusiastic Indian citizens, with a zeal to take up scientific work in polar regions, for consideration under these PhD studentships. The successful students will perform research based at NPI's Headquarter in Tromsø, Norway.

### **Work content**

#### *Antarctic Glaciology (01 Post)*

*Ref. # ANT11*

The successful candidate will be part of a multidisciplinary, international team which investigates the mass-balance history over the past millennia in the coastal Dronning Maud Land, East Antarctica. Further, the candidate will decipher ice-flow dynamics of the inter-connected system of ice rises, shelf ice, and outlet glaciers. Specifically, the student will be involved in an Antarctic fieldwork, analyze/interpret ice-penetrating radar and GPS data with the aid of radio-wave propagation and ice-flow models.

#### *Arctic Glaciology (01 Post)*

*Ref. # ARC22*

The successful candidate will be working with a multidisciplinary, international team investigating the dynamics of calving glaciers in the Arctic and the role of glacier meltwater in fjord circulation. The candidate will work on developing a surface melt model for determining water inputs to the Arctic glacier hydrology system, and in implementing a glaciological routing model for predicting the transmission of surface melt water to the glacier front, and into the fjord.

Both the students will carry out research based at NPI's Headquarters in Tromsø, and are expected to follow and complete their PhD course work at the University of Oslo (UiO). The students will be jointly supervised by researchers at UiO, NPI and NCAOR. The final PhD degree shall be awarded by the University of Oslo. The successful candidates are expected to play a key role in promoting polar glaciology in India, upon receiving their doctoral degrees.

In order to achieve the objectives of the Studentship programme and to ensure the continued involvement of the selected students in the Indian Polar glaciology programmes during and on completion of their PhD studentships, the students shall execute a Bond Agreement with NCAOR before the final appointment.

## Qualifications

Essential qualifications:

- Master's degree or equivalent in Earth Sciences, Physics or related subjects relevant to the work mentioned above with at least first class (60% marks or equivalent GPA) at post graduation level from a recognized University.
- Good working knowledge in physics and mathematics as evidenced by certificates/documents.
- Experience in computer programming as evidenced by certificates/documents.
- Standard formal requirements for enrolling in the PhD program of the University of Oslo must be met. The candidate should have good working knowledge of English (both oral and written), the ability to work in teams as well as independently, and be well structured and organized. There are formal requirements of grade-levels and proficiency in English prescribed by the UiO (<http://www.mn.uio.no/english/research/doctoral-degree-and-career/phd-programme/application/index.html>) and the selected students will have to submit the English proficiency certificates before taking up the positions.

Desirable qualifications:

- Training and strong interest in modeling, preferably in hydrology and/or glaciology.
- Training in geophysical studies, preferably in hydrology and/or glaciology.

## General

Only Indian nationals are eligible and need to apply.

The PhD Studentship is for a fixed term of three years, fully funded by the Ministry of Earth Sciences, Government of India. The fellowships will be according to the Norwegian State salary code 1017/1378, salary level 50-55 (NOK 421 100 – 457 700 per year). The positions are open immediately and the selection interviews will be held in Goa or New Delhi.

Further inquiries about the position may be directed to Kenichi Matsuoka (e-mail: [kenichi.matsuoka@npolar.no](mailto:kenichi.matsuoka@npolar.no), tel. +47 77 75 06 45), Nalan Koc (e-mail: [nalan.koc@npolar.no](mailto:nalan.koc@npolar.no), tel. +47 77 75 05 30), Jon Ove Hagen (e-mail: [j.o.m.hagen@geo.uio.no](mailto:j.o.m.hagen@geo.uio.no), tel. +47 22 85 40 38) or Thamban Meloth (e-mail: [meloth@ncaor.gov.in](mailto:meloth@ncaor.gov.in)).

Application deadline is **31<sup>st</sup> July 2013** (1730 Hrs Indian Standard Time). Please submit your application online at <http://www.incois.gov.in/Incois/Vacancies/NcaorVac0613/NcaorAdvt0613.jsp>. Only applications submitted online shall be considered.

All applications should be submitted online with the following documents:

- The completed application form together with a statement of interest (related to the research tasks above) and the reference number of the position applied for.
- Curriculum vitae in .pdf including detailed academic qualifications.
- Clear scanned copies of educational certificates (mark sheets for all academic years) in .pdf. If the certificates are in a language other than English or Hindi, attested translations should also be uploaded.
- Copies of published and unpublished scientific work. Copies of not more than three published work shall be uploaded. The number of unpublished scientific works that shall be uploaded is not more than three.

## **Other requirement**

Maximum age limit of the candidates would be 28 years. Candidates/ Persons claiming SC/ST/OBC/PH status OR age relaxation submit certificate in original issued by the prescribed authority at the time of the selection interview. Age relaxation will be as per Government of India norms (SC, ST & PH- 5 years, OBC-3 years, Central/State Govt. regular employees and regular employees of NCAOR up to - 5 years).

The last date is the cutoff date for all purposes including Age/Qualification etc.

Candidates working in Indian Government/Public Sector Undertakings/ Autonomous bodies must produce the requisite 'No Objection Certificate' from their employer at the time of interview.

The prescribed essential qualifications are minimum requirements and mere possession of the same does not entitle the candidates to be called for interview. Thus, the Centre may restrict the number of candidates, to be called for the interview to a reasonable limit on the basis of qualification and/or experience higher than the minimum prescribed in the advertisement and as relevant to the research tasks. The candidates will have to make own arrangements to appear for the interview. No correspondence will be entertained with the candidates who are not called for interview / selected for appointment.

Candidates will have to produce all original documents in proof of details furnished in the application at the time of interview for verification and the same will be returned after verification.

Director, NCAOR reserves the right to fill-up or not to fill-up any or all the posts advertised without assigning any reasons thereof. The forms for recruitment and review may change at any stage, if so decided by the Director, NCAOR.