



NEW YORK  
UNIVERSITY



ABU DHABI

## Research Scientist position

### Glacier modelling

#### 1. Position information

Department: NYU Research Institute, Centre for Sea Level Change (CSLC)	Grade: Research Scientist or Postdoc depending on experience after PhD.
Reports to: The Group Leader and to the Head of the CSLC.	Publication Date: 20 April 2017 Closing Date: Open until filled.

#### 2. About NYU Abu Dhabi

New York University in Abu Dhabi, through its NYU Abu Dhabi Institute, seeks to be a world-class center of cutting-edge research, scholarship, and cultural activity. The institute offers outstanding facilities; research funding at a significant level and with exceptional continuity of support; and a vigorous, cohesive, and interactive intellectual environment. Further details about the institute are found at <http://nyuad.nyu.edu/institute/>

The research group at the Centre for Sea Level Change (CSLC) works in various areas of sea-level change science ranging from meteorological, oceanographic, and

glaciological observations, both in situ and remote sensing, as well as component and coupled models of the atmosphere, ocean, and glacier system.

For details, see <http://nyuad.nyu.edu/en/research/nyuad-institute/institute-research/cslc.html>.

### 3. Summary of the role

The CSLC is looking to hire a researcher with expertise in glacier and ice shelf modelling. The scientist will work with others in a team to characterize Antarctic glaciers and assess their instability.

The incumbent will perform research on the dynamic of Antarctic glaciers and the effect of ocean and atmosphere on their motion and instability. The work involves, in addition to modelling, the development of diagnostics using satellite and ground-based observational datasets and the possibility to join field campaigns in Arctic and Antarctic.

### 4. Main Duties and Key responsibilities

- Conducting and analyzing experiments on glacier dynamic processes using a glacier model, satellite observations and ground-based observations to assess their instability.
- Developing diagnostics of the physical processes involved in the interactions between glaciers, ice shelves, ocean, sea ice and atmosphere, based on observational and numerical datasets.
- Conduct scientific studies, publish results in peer-reviewed journals and communicate about them in international conferences.

### 5. Personal attributes

- Good interpersonal and communication skills
- Excellent analytical and problem-solving skills with a proactive approach
- Dedication and enthusiasm to work in a team
- Ability to work efficiently and complete diverse tasks in a timely manner

## 6. Qualifications and experience required

Education	A PhD degree in oceanography, glaciology or a related discipline.
Experience	Experience with numerical models.  Experience in analyzing large geophysical datasets.  Experience with high-performance computing environments and scientific codes.  Familiarity with glacial modeling software (e.g., ELMER ICE) is an advantage.
Knowledge and skills	Very good programming and scripting skills are expected.  Good understanding of physical processes involved in the interaction between the atmosphere, sea ice, the ocean and land ice is essential.
Language	Candidates must be able to work effectively in English and interviews will be conducted in English.

## 7. Other information

All positions are based in Abu Dhabi (UAE) and appointments are made for an initial two-year period, and are renewable, pending positive annual review. Salary is dependent upon qualifications. NYU Abu Dhabi offers substantial benefits including allowances for housing, transportation, and home visits, in addition to health insurance, an attractive retirement plan and tuition fees for kids.

## 8. How to apply

To be considered, candidates should submit Curriculum Vitae (including the list of their peer-reviewed publications) and the names of three professional references, all in PDF format by email to Dr. Diana FRANCIS ([diana.francis@nyu.edu](mailto:diana.francis@nyu.edu)) with Prof. David Holland ([david.holland@nyu.edu](mailto:david.holland@nyu.edu)) and Denise Holland ([denise.holland@nyu.edu](mailto:denise.holland@nyu.edu)) in copy.