Université Grenoble Alpes

RECRUTEMENT

Direction du développement des compétences (DevCo)

Contract researcher (f/m)

Université Grenoble Alpes carries the IDEX project and gathers all the public higher education structures in Grenoble - Alpes area.

59 000 students

7 700 employees

30 schools

75 research laboratories

www.univ-grenoble-alpes.fr

Fixed-term contract (18 months)

Full time

Job level : post-doc

Contract dates : from 01/03/2022 to 30/09/2023

Location : Institut des Géosciences de l'Environnement (IGE), Grenoble, FRANCE

Structure description

The CNRS Institut des Géosciences de l'Environnement (IGE) and The Université Grenoble Alpes (UGA) in Grenoble (France) are searching for a postdoc scientist (18 months term) to be sponsored by the project funded by the Belmont Forum Fund through the *French National Research Agency.*

IGE (http://www.ige-grenoble.fr/) is one of the world's leading multidisciplinary institutions in climate, cryosphere, ocean and hydrological research. We carry out experimental research, climate diagnostics and high-performance modelling with high resolution ocean, ice and atmosphere models. UGA is recognized as one of the highest ranked French Universities in Earth Sciences with an excellently managed campus in the city of Grenoble - one of the oldest and most pleasant among European mid-size cities and technological capitals.

The C2H (Climate, Cryosphere and Hydrosphere) team seeks to better understand the interactions between climate, cryosphere and hydrosphere in cold regions of the planet, and their positioning in the global climate system. The person recruited will be placed under the responsibility of O. Zolina.

Project Details

RACE (**R**apid **A**rctic environmental **C**hanges : implications for well-being, resilience and **E**volution of Arctic communities)**.**

Contact

If you have questions regarding the position, you may contact Ms ZOLINA Olga by mail : olga.zolina@univ-grenoble-alpes.fr.

Missions :

The project RACE (**R**apid **A**rctic environmental **C**hanges: implications for well-being, resilience and **E**volution of Arctic communities) as a whole is focused on the multidisciplinary investigation of the circumpolar Arctic with a general idea to provide a synergy between key-climate processes in the Arctic on one hand and impacts on the Arctic environment and socio-economic indicators on the other.

The project is coordinated by IGE with P.P.Shirshov Institute of Oceanology, RAS (IORAS, Moscow, Russia), the University of Bergen (Norway), the George Washington University (GWU, Washington DC, USA) and the Institute of Economic Forecasting, RAS (IEFRAS, Moscow, Russia) being the project partners. In this consortium IGE, IORAS and University of Bergen are responsible for the physical climate processes and GWU and IEFRAS are covering socio-economic and demographic issues, all staying in a close co-operation with each other.

Event – Objective result(s) fixing the end of the contract :

- Comprehensive assessment of the mechanisms behind arctic precipitation and assessment of different datasets and model products ;
- Submission ans publication of 1 article in peer-reviewed journals ;
- Presentations in the biggest international conferences.

Methods of evaluation and control of the achievement of result(s) :

- Bi-weekly working meetings with the PI project (O.Zolina) and other IGE scientists involved in the project and in associated research ;
- Annual conference ;
- Regular interventions during meeting of the project RACE, evaluation of the results by the RACE consortium and the RACE advisory board.

Main activities :

The focus of the research will be on a better understanding of changes in high latitudinal precipitation (both liquid and solid state) and associated changes in the Arctic hydrological cycle. The analysis will be based on observational and model (including renalyses) products.

The focus will be on linking precipitation and moisture transport with specific Arctic climate feedbacks on different time scales and also for different seasons. We anticipate that the expected results will have high scientific value *per se*, but in the framework of the international project, these results will need to be beneficial for the further socio-economic assessments performed by the other project partners. Specifically, the association of the changes in precipitation with extreme weather events, air quality characteristics and biogeochemical cycles in the Arctic will be potentially considered.

Trade skills (priority) :

We expect the successful candidate to have a PhD degree in meteorology, atmospheric physics, climatology, or related areas. Basic knowledge of geophysical fluid mechanics, geostatistics, and climate physics is required.

Additional expertise in hydrology and/or atmospheric chemistry is an advantage. Familiarity with numerical procedures, programming, major data storage formats, as well as manipulating large data sets are unconditionally required. Good knowledge of English (including writing skills) is required, basic knowledge of French is not obligatory, while appreciated.

Personal skills :

- Ability to work in a team ;
- Skills of communication with scientic and technical ;
- Engagement in related laboratory activities.

Previous formation, diplomas :

PhD degree in meteorology, atmospheric physics, climatology, or related areas.

Compensation and benefits :

Wage : gross monthly salary depending on the candidate's experience.

To candidate :

Candidates should send their CV including a publication/presentation list, a statement of motivation, and the names of 3 potential references by Email to: olga.zolina@univ-grenoble-alpes.fr before December 1st, 2021. The position will be provisionally open starting from 1st March 2022, for a period of 18 months.

Social benefits

- Extra-curricular services
- Holiday vouchers, subsidized restaurants, CESU
- CAESUG

Work & private life balance

- Paid leaves: 45 day / year jours, ≠ work hours arrangements, possibility of teleworking
- Engagement policy (QWL, disability handicap, diversity, parity)

Staff support

- Internal staff mobility
- Individual support: trainings, support for the preparation of competitive examinations, coaching

Dynamic campus

- Sport facilities
- Cultural and artistic activities
- Unique work environment
- Ease of accessibility

How to apply to this position :

Resume and statement of motivation and names of 3 references and publication list

Mail it to olga.zolina@univ-grenoble-alpes.fr