Announcement of NTNU-CSC PhD Scholarship

Type of scholarship: PhD candidate

Period of the scholarship: From September 2020 (3 years duration)

Short description of the scholarship:

The scholarship will be associated with the CHINOR Research project “Strategies to Mitigate Pressures on Terrestrial Ecosystems from Multiple Stressors (MITISTRESS)”. The project is co-financed by the Norwegian Research Council (n. 286773) and the National Natural Science Foundation of China (n. 41991232). The project started in 2019 and will finish in 2023. This scholarship will be integrated into the research activities of the project, which are based on assessing the sensitivity of terrestrial ecosystems to multiple stressors, such as land use, land use changes, and climate change. The combined effects of multiple stressors remain largely unexplored, especially when it comes to the response at a landscape level where multiple stressors can interact in complex ways. Terrestrial ecosystem stress is already manifesting in several parts of Norway and the Tibetan plateau of China, especially as a result of ongoing average and extreme temperature rise.

This scholarship will support research activities that will map land uses and changes in key indicators under climate change in Norway and the Tibetan Plateau. The major stressors covered in the project are land use, driven by multiple societal demands, and climate change. The project will process satellite data, use primary data from fieldwork in the Tibetan Plateau of China, calibrate and run regional climate and ecosystem models to develop novel approaches for assessing cumulative effects of multiple stressors on terrestrial ecosystems. The research will ultimately generate new robust scientific knowledge to assist the design of land management policies in Norway and China.

Qualification and requirement:

- Master degree in geography, climate science, environmental sciences, natural sciences, or similar.
- Familiarity with processing large datasets, experience with satellite data, and/or ecosystem or climate models is an advantage.
- Good programming skills in one or more languages (python, matlab, etc.)

In addition, for all applicants the following applies:

- Fluent English language, both written and spoken with certificates of TOEFL minimum 95 or IELTS minimum 6.5
- Chinese citizenshio documents (copy of his/her passport or national ID of P.R. China
- CV
- A motivation letter
Deadline for submission of application: 20th February 2020

Scholarship: 17 000 NOK/month for a period of up to 36 months

According to the NTNU-CSC agreement
CSC will provide a living stipend, currently 12,500 NOK per month for a period of up to forty-eight (48) months, and a round-trip international airfare between China and Norway. NTNU will provide a monthly additional funding for a period of up to forty-eight (48) months, which combined with the CSC living stipend ensures the sufficient income (currently minimum 17,000 NOK per month) required by NTNU. No tuition fees will be charged for PhD candidates at NTNU.

Supervisor info: Francesco Cherubini, Professor, Industrial Ecology Programme (Department of Energy and Process Engineering), francesco.cherubini@ntnu.no

Email and contact information for where to send the application: francesco.cherubini@ntnu.no