



Agroscope Job Advertisement

Title

PostDoc in Grassland Sensing

Introduction

Remote sensing opens up great potential for the demarcation of habitats and the assessment of their status. This project investigates the use of Earth observation data to classify and map grassland types in the mountain and alpine region. We classify multispectral satellite and drone images and compare them with traditional vegetation maps from management plans and monitoring programmes. The demarcation and mapping of alpine vegetation types is an important basis for recording biodiversity and preparing management plans. In this way, the project develops basic principles for management planning and policy evaluation.

Tasks

- Developing and documenting new techniques for the photogrammetric analysis and statistical modelling of the occurrence of montane and alpine grassland types
- Synthesising existing methods for mapping grassland habitats and vegetation types, focusing in particular on the mountain and alpine region
- Preparing and analysing existing Earth observation data and creating additional multispectral images using aerial drones
- Interacting with researchers both inside and outside of Agroscope in the field of remote sensing
- Communicating results in the form of scientific presentations and publications

Requirements

- PhD in Agronomy, Geography, Computer Science, Environmental Sciences or Natural Sciences
- Solid background in remote sensing, ideally based on your own experimental or theoretical research
- Practical experience in the analysis of remote sensing data and in statistical programming
- Knowledge of two official Swiss languages. The post requires very good spoken and written knowledge of English.

About Us

Agroscope is the Swiss federal centre of excellence for research in the agriculture and food sector. Its researchers carry out their work at a number of sites in Switzerland. Headquartered in Bern-Liebefeld, Agroscope is attached to the Swiss Federal Department of Economic Affairs, Education and Research EAER.

The 'Forage Production and Grassland Systems' Research Group studies the mechanisms of vegetation dynamics for sustainable grassland management at the Reckenholz site in Zurich.

We offer you a varied and largely independent post in an interesting work environment. You will benefit from flexible working hours and good employee benefits.

Place of Work

8046 Zurich-Affoltern, canton of Zurich (ZH)

Salary Category

According to Swiss National Science Foundation guidelines

Employment Level

80–100%

Contact

If this challenge appeals to you and you meet our requirements profile, we look forward to your online application at www.stelle.admin.ch; Ref. No. 48155. Deadline for application: 27 Jan. 2022. We are closed for the holidays from 24 December 2021 to 2 January 2022. During this time, we will not be able to process any applications or provide any information.

Have we piqued your interest? Would you like to learn more about this post? Manuel Schneider, Head of the 'Mountain Forage Production' Team of the 'Forage Production and Grassland Systems' Research Group, manuel.schneider@agroscope.admin.ch, Tel. +41 58 468 75 10, would be pleased to provide you with further information. (NB: Please do not send any applications to the above email address.)

Start date: 1 April 2022 or as agreed. The post is for a fixed period until 31 December 2024.