



UNIVERSITÉ DE GENÈVE

FACULTÉ DES SCIENCES

SECTION DE PHYSIQUE

GAP - BIOPHOTONICS

University of Geneva

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Researcher position on image recognition using machine learning

The reduction of pesticide use in agriculture has become a major socio economic and environmental concern. Disease forecasting models based on weather data help the growers to spray when infection conditions are present but the information on the actual presence of the pathogen is often deficient. The project SMALA (Smart Agriculture using Lasers and AI) aims to develop novel approaches and technologies, involving photonics, internet of things, and artificial intelligence in order to enable a real time detection of pathogen presence in the field and integrate this information in forecasting models.

The project is funded by the Bridge Discovery joint program of the SNSF and Innosuisse

Your job

Adapt and apply machine learning algorithms and protocols to the recognition and the classification of pathogen spores on images, acquired in the field by digital holography.

Your profile

The required skills to apply to this position consist in a deep expertise (PhD or equivalent) in digital image processing, segmentation, classification, handling of large data volumes, and image recognition using machine learning.

We offer

The brutto salary ranges approximately from 70000 CHF/year to 100000 CHF/year depending on the experience of the candidate. Social charges amount typically 23%.

Duration : 1 year, renewable.

Starting date : as soon as possible

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<http://www.unige.ch/gap/biophotonics/>