

Postdoc in tree physiology and urban ecology – 50%

The Plant Ecology Research Laboratory PERL and the Extreme Environments Research Laboratory EERL in the Institute of Environmental Engineering at EPFL (Lausanne, Switzerland) is offering a 12-months at 50% (potentially renewable for another 24 months at 100%) postdoc position in plant physiology, atmospheric chemistry and urban ecology starting in March 2022 or as soon as possible thereafter.

PERL studies the impact of plant biodiversity loss on ecosystem functions and services and the physiological processes involved in plant responses to climatic stress. EERL aims to create integrated process understanding by conducting field studies looking at interactions between the atmosphere, land and human activities in a changing climate. The postdoc will work closely with collaborators from PERL and EERL on improving our understanding of heat and drought impacts on tree physiological processes, atmospheric pollution and its feedback to urban cooling. The work's overall objective will be to establish the link between climate variability, tree transpiration and urban cooling potential for a broad range of tree species in diverse urban settings. In addition, the postdoc will measure and map urban particulate matter production, ozone and pollen production from trees at a high temporal resolution. The work will be conducted in the city of Geneva in 2022/2023. The postdoc will have access to state-of-the-art ecophysiological and atmospheric chemistry equipment from PERL and EERL.

The applicant must have a Ph.D. with expertise in plant physiology, atmospheric chemistry, ecological modeling, urban ecology, or related fields. Salary is following the ETH Domain salary system. To apply, please send a CV, list of publications, a brief description of research accomplishments and future goals, and one letter of reference to charlotte.grossiord@epfl.ch and julia.schmale@epfl.ch.

The Ecole polytechnique fédérale de Lausanne (EPFL) is one of the most dynamic university campuses in Europe and ranks among the top 20 universities worldwide. EPFL employs 6,000 people supporting the three main missions of the institutions: education, research and innovation. The EPFL campus offers an exceptional working environment at the heart of a community of 16,000 people, including over 10,000 students and 3,500 researchers from 120 different countries.