

## Doctoral assistant in Hydroclimatic modeling University of Lausanne

Direct Link: <https://www.AcademicKeys.com/r?job=147495>

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Posted Oct. 9, 2020, expired Feb. 8, 2021

<b>Job Title</b>	Doctoral assistant in Hydroclimatic modeling
<b>Department</b>	Institute of Earth Surface Dynamics <a href="https://www.unil.ch/idyst/en/home.html">https://www.unil.ch/idyst/en/home.html</a>
<b>Institution</b>	University of Lausanne Lausanne, , Switzerland
<b>Date Posted</b>	Oct. 9, 2020
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Natural Sciences Mathematics/Applied Mathematics Geology - Hydrogeology Geodetic Sciences Environmental Sciences/Ecology/Forestry Earth Sciences Computer/Information Sciences Atmospheric Sciences
<b>Job Website</b>	<a href="https://bit.ly/2SGE6no">https://bit.ly/2SGE6no</a>
<b>Apply Online Here</b>	<a href="https://bit.ly/2SGE6no">https://bit.ly/2SGE6no</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

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The Institute of Earth Surface Dynamics opens a position of

Doctoral assistant (Assistant-e diplômé-e) in Hydroclimatic modeling

Starting date : from 01.02.2021

Position duration : 1 year originally. The contract can then be renewed 2x for 2 years. The maximum total duration is 5 years.

Level of activity : 80%

Work location : Lausanne Mouline (Geopolis)

Candidate profile :

Climate change is projected to have local effects on the response of catchments around the world. This response is however difficult to quantify due to uncertainties in both climate projections and hydrological models. This position will aim at using the availability of large datasets and advanced machine learning algorithms to quantify the local impacts of climate change on the hydrological cycle.

The chosen candidate will have a master's degree in environmental science, remote sensing, applied mathematics, computer science, civil engineering, or a related domain focused on environmental or hydrological modeling.

A requirement for this position is a good base in applied mathematics and programming, demonstrated through academic works (e.g. MSc thesis or publications). Knowledge in geostatistics or machine learning, experience in handling remote sensing or climate datasets are advantages.

The ideal candidate should be committed to conducting a PhD thesis on the development of hydrological models that incorporate large datasets, such as those produced by remote sensing platforms. The candidates should be prepared to develop and use advanced numerical methods, such as geostatistics and machine learning.

Excellent skills in written and oral English are required. Working knowledge of French language is preferable but not necessary.

Job description :

Most of the workload (at least 50%, but likely higher) will be devoted to a PhD thesis in hydrological modeling using geostatistics and remote sensing. This work will include the use of existing data (satellite imagery, climate models outputs, reanalysis data) to develop numerical representations of the



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