

# Vacancies

Research Positions in Machine Learning and Computer Vision

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**Deadline:** This submission webpage will be closed as soon as all the positions are filled.

## Positions

We have an opening for a PhD position in the areas of machine learning and computer vision. The position is supported financially by a SNSF project, whose aim is to build controllable world models with deep learning methods. World models are generative models that predict future outcomes given past ones. We aim to work with both images and audio modalities and be able to use the world model to predict what would happen in the future if a certain condition of interest is met. This project is based on Unsupervised Learning, and in particular, it uses datasets that do not have human labeling/annotation (e.g., text). Research will be performed in the Computer Vision Group at the University of Bern. The position can start from September 1, 2024, at the earliest and will be filled as soon as a suitable candidate is found.

## Your profile

We are looking for a highly motivated candidate, who is eager to get involved in cutting edge, creative research. You hold a Master's degree in Computer Science, Mathematics or Engineering, with a solid background in machine learning and computer vision. You have excellent skills in applied mathematics, in probability theory, and a programming language (e.g., Python, C/C++). You have a solid background in Deep Learning and you are already a proficient programmer in one of the main Deep Learning libraries (e.g., TensorFlow, PyTorch). We expect fluent communication skills in English.

## What we offer

You will be part of a team of academic researchers working on state of the art technologies for machine learning and computer vision. You will have the chance to contribute to and participate in the international research community. We are located in Bern in the core of Switzerland, one of the cities with the highest quality of life worldwide. You will receive a very competitive salary (a base salary for research + a separate teaching assistance salary) and be given financial support to attend training courses and international conferences.

## Application and further information

Applications must include the following documents (file size limit of 3MB):

- CV;
- BSc and MSc degree certificates and transcripts;
- 2 reference letters;
- A pdf with the answers to the [questionnaire](#);
- A Jupyter Notebook with solutions to the [coding problems](#).



First name\*

Last name\*

E-mail\*

CV\*

[Choose file](#) No file chosen

Certificates\*

[Choose file](#) No file chosen

Reference Letters\*

[Choose file](#) No file chosen

Answers to Questionnaire\*

[Choose file](#) No file chosen

Code\*

[Choose file](#) No file chosen

Supplementary Documents

[Choose file](#) No file chosen

Link to Cloud Folder

**SUBMIT**

You will receive a confirmation by email.

