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Postdoc in digital pathology and image analysis (PhD), 80-100%

Workplace:	Institute of Pathology, University of Bern, Bern, Switzerland
Starting date:	Spring 2019 (negotiable)
Duration:	2.5-3 years
Application deadline:	December 1st 2018

Job Description:

We are looking for a highly ambitious and dedicated person with research experience in digital pathology, digital image analysis, and advanced machine learning to take the technical lead of our interdisciplinary Digital Pathology Research Group. In addition to working on their own project, the post-doc fellow is also expected to help build our research group capacity, fostering collaborations, and implementing AI algorithms into the diagnostic routine. The successful applicant will be employed at the Institute of Pathology at the University of Bern and work in close collaboration with the Signal Processing Laboratory at the EPFL.

Your tasks will involve:

- Project-specific development of machine learning algorithms for classification and prognosis of colorectal cancer
- Oversee implementation of image analysis algorithms into diagnostic routine
- Assist in developing the roadmap for the digital pathology research group
- Post-doc fellows of exceptional caliber may also be granted responsibility for co-supervising MSc, PhD, or MD students on a subject related to their research.
- Scientific publications and presentations at national and international conferences is expected.

Requirements:

- PhD in computer science, natural science, biomedical science, statistics, engineering, or applied mathematics
- Prior research experience of 1-2 years using advanced machine learning for image analysis on histopathological images
- Strong publication record
- Excellent analytical and communication skills; ability to communicate data analysis reports in lay terms to very diverse and heterogeneous audiences
- Interest in real-life application of image analysis to diagnostics
- Understanding of theoretical underpinnings of relevant data analysis methods
- Excellent in English; excellent writing skills

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About the employer:

Located in the beautiful Swiss capital with panoramic view of the Swiss Alps, the Institute of Pathology at the University of Bern takes a leading role in implementing digital pathology into the diagnostics routine. The diagnostics lab is equipped with the latest technology and has recently been completely restructured and subsequently nominated for the Avance Lean Healthcare Award 2018. The Diagnostic Molecular Pathology division is accredited as a testing laboratory by the Swiss Accreditation Service SAS. Additionally, the Institute of Pathology is home to the Tissue Bank Bern, the Translational Research Unit, and works closely with the Cancer Registry Bern.

The Digital Pathology Research Group is led by Prof. Inti Zlobec as an interdisciplinary team of researchers from medical and data sciences, including several graduate students (MSc & PhD). It is supported by the IT team and the Translational Research Unit at the Institute of Pathology.

About our collaborators:

The Ecole Polytechnique Fédérale de Lausanne (EPFL) is an internationally top-ranked scientific research and educational institution on the shores of Lake Geneva, Switzerland. As one of two Swiss Federal Institutes of Technology, its trajectory over the past four decades is unparalleled—taking the lead in emerging fields of research such as bioengineering, signal processing and energy / transportation technology.

Under the leadership of Prof. Jean-Philippe Thiran, the Signal Processing Laboratory (LTS5) of EPFL counts some 30 researchers, both PhD students and post-docs, conducting leading edge research in different domains of signal/image analysis and computer vision, including data acquisition and reconstruction, object detection, recognition and tracking, behavioral models in image analysis, facial image analysis, medical and remote sensing imaging.

How to apply:

For informal inquiries, please write to Prof. Inti Zlobec: inti.zlobec@pathology.unibe.ch

Full applications must be sent to HR by email (personal@pathology.unibe.ch) and be in the form of a single pdf file including: a motivation letter describing your research interests and your match to the advertised position, your CV and publication list, and names and email address of 3 references. Screening of candidates will start immediately. The University of Bern is an equal opportunity employment institution and does not tolerate any form of discrimination against any type of personal characteristics or views.