We are looking for a highly motivated 

**Early career data scientist/ research fellow/ junior epidemiologist (80% to 100%)**

Do you like to be a key driver of a revolution in big data in the field of paediatric research? Improve the lives of children for generations to come in Switzerland? In this position, you will be part of the Swiss-wide National Data Stream “SwissPedHealth” platform, which includes 7 paediatric hospitals in Switzerland and is funded by the Swiss Personalized Health Network (SPHN). You will make routine data from clinical encounters in children’s hospitals available to the paediatric research community. The data stream will combine health data from all university children’s hospitals, cantonal hospitals, health registries, and research institutions to build a **dataset of >1 million children**. You will also collaborate internationally and compare your data with similar initiatives from other countries, such as a large dataset from the US with information from >12 million children.

The combined dataset will be analysed in several **nested research projects**. You will mainly be involved in one that does focus on **childhood cancer patients**. Since 1976 children diagnosed with cancer are reported actively to the National Childhood Cancer Registry (www.childhoodcancerregistry.ch) to record cancer incidence, treatment, and survival. Until now, data entry and quality control are manual. This leads to delays in registration and duplication of work. In this project you will compare data extracted from hospital records with manually entered data in the cancer registry and work towards establishing automatized quality control and transfer of digital data from hospitals directly into the registry. This will improve data collection pathways and lead to more efficient cancer registration procedures and related research.

**Main tasks**

- Support hospitals in implementing harmonised data capture in their hospital information systems, extract data for research, combine, compare, and clean them and improve data flows.
- Define approaches for linking hospital data with other data sources, for instance from the Swiss Federal Statistical Office (mortality and birth statistics), and from registries and cohort studies
- Compare information on children diagnosed with cancer between the data warehouses of the hospitals and the childhood cancer registry; develop procedures for bidirectional dataflows
- Write publications in peer-reviewed journals and present results at conferences
- Support a PhD student in manuscript preparation and statistical analyses

**Requirements**

- PhD, MD or MSc in epidemiology, paediatrics, statistics, or a related field.
- At least 3 years’ experience in epidemiology, statistics, or public health in a medical setting.
- Have a strong research track record.
- Strong organizational skills and ability to work independently and interact with interdisciplinary teams e.g., hospital heads, clinicians, researchers, data- and project managers.
- Statistical programming skills, ideally with experience in STATA or R
- Excellent communication skills in English (German and/or French would be an asset).
- Be driven, goal- and team-oriented

The position is available immediately, with negotiable date of start and offered for 3 years initially. Salary depends on qualification and experience.

If you are looking for an exciting dynamic position in a highly motivated interdisciplinary team, send your **CV with motivation letter** to Fabiën Belle (fabien.belle@isp.unibe.ch). For further information, contact us by e-mail. Please send your application as soon as possible, at the latest by **October 28th, 2022**.