



Every day, over 1,250,000 customers enjoy safe, comfortable and on-time travel on around 5,000 trains with SBB Passenger Traffic. The service planning unit is SBB Passenger Traffic Division's centre of excellence for medium and long-term service development and traffic simulation. Based on the SIMBA model, we simulate when and where our customers are travelling with us today and in 20 to 30 years. This is why we are constantly improving and developing our simulation models.

## **Expert in transport simulation with MATSim/PTV Visum (80-100% of full time hours)**

Bern, Switzerland, starting 1 September 2017 or by arrangement

### **Your tasks.**

- Extending our travel modelling environment to include multiple modes using the MATSim simulation framework
- Modelling interactions between rail and other modes of transport and simulating disruptive scenarios
- Contributing to a stable and efficient IT environment for our transport modelling applications at SBB Passenger Traffic
- Maintaining and continually improving our IT tools

### **Your profile.**

- University degree in computer science, mathematics, economics or traffic engineering or equivalent qualification
- Several years of experience in building and developing transport models, ideally based on the open-source MATSim framework and/or PTV Visum
- Knowledge of transportation network models and traffic flow models, ideally with practical calibration experience
- You enjoy programming tools and interfaces; preferred is good knowledge of Python and/or Java.
- You are highly interested in public transport, transport planning and modelling
- You grasp things quickly and can think and act in a joined-up, strategic and conceptual way
- A sound knowledge of German or French is required.

### **What you can expect from us.**

Tackle the challenges and make the most of the freedom in our work environment to develop and implement your ideas. Become part of a motivated, success-orientated team and work with us on issues that are important to our customers.

### **Contact.**

Does this sound like you? For more details, please contact Mr P. Bützberger, head of Methods & Forecasts, tel. +41 79 753 41 65.

You can apply directly online at [sbb.ch/jobs](http://sbb.ch/jobs) (Ref: 25894) or send your application to: SBB AG, HR Shared Service Center, Rue de la Carrière 2a, CH-1701 Fribourg.