

Postdoctoral position in mathematical modelling of Covid19 epidemiology

We are seeking a post-doc to work within the Department of Visceral Surgery & Medicine, Bern University Hospital, on a project to identify strategies to protect healthcare professionals during pandemics. This post-doc position will be part of an international collaboration between Switzerland (Bern University Hospital) and Italy (ICTP-The Abdus Salam International Centre for Theoretical physics, www.ictp.it) to address key questions on how to organize a workforce using data from the first and potential second waves of the Covid19 outbreak. The project will involve mathematical modelling of epidemiology, numerical simulations, statistical analysis and data integration.

Position: Post-doc research position, available for 2 years.

Candidate Requirements:

- PhD in mathematics, physics, computer science, computational biology, statistics or any related fields. Candidates with a biological background will have to be able to demonstrate expertise in programming.
- Good communication skills in English.
- Ability to work independently in an international environment.
- Expertise in at least one programming language, such as C, Matlab, Python or R.
- Knowledge in topics such as stochastic processes, epidemiology and data analysis are desirable.

Start date: immediately,

Application deadline: June 30th 2020

Funding: Swiss National Science Foundation (SNF) "*How to protect healthcare workforce during an epidemic outbreak: Modelling a desynchronization strategy from the COVID-19 pandemic*".

Salary: will be determined according to SNF and University of Bern guidelines.

No teaching duties are involved.

All interested candidates please apply by sending your CV and 2 reference contacts before June 30th, 2020 to either:

Prof. Guido Beldi, guido.beldi@insel.ch,
Dr. Daniel Sanchez-Taltavull, daniel.sanchez@dbmr.unibe.ch -or-
Prof. Edgar Roldan, edgar@ictp.it