

Junior Researcher in mathematical modelling of neglected tropical diseases. The position is initially offered for two years with possibility of extension leading to a PhD.

Job description: The neglected tropical diseases (NTD) are a group of poverty-related diseases caused by various types of infective agents that affect over a billion people worldwide. This research position focuses on soil transmitted helminths and schistosomiasis. The research will involve working with established individual-based and deterministic models for transmission and control of NTDs as well as developing new mathematical and statistical models for the analysis of epidemiological data. The researcher is expected to publish in high impact peer-reviewed journals.

Qualifications and skills: Enthusiastic graduate with Master of Science in epidemiology, biology, medicine, mathematics, econometrics, biostatistics, or related field with an interest in infectious disease modeling and epidemiological data analysis. The candidate should demonstrate a strong affinity for quantitative skills, including statistics (in particular Bayesian methods) and statistical programming (preferably in R). Previous experience conducting research are preferred. The candidate should have good command of the English language, both verbally and in writing (i.e. command of the Dutch language is not required).

Work environment: The candidate will be working within the group of infectious disease control at the Department of Public Health, Erasmus MC, Rotterdam, the Netherlands. The Department of Public Health employs researchers from various backgrounds, including medical sciences, social sciences, computer sciences, economics, and mathematics, providing a well-rounded working environment with a wide range of expertise. Within the department, the research unit of Infectious Disease Control is an internationally leading group in mathematical modelling of transmission and control of parasite, bacterial, and viral infections, with long-standing expertise in individual-based modelling. The junior researcher position is linked to several ongoing research projects, which are carried out in collaboration with Leiden University Medical Center in addition to various international partners and modelling groups within the Bill & Melinda Gates Foundation funded NTD Modelling Consortium.

The position is initially offered for two years with possibility of extension leading to a PhD, depending on positive evaluation and funding. For more information about this position, please contact: Dr. Federica Giardina, Senior researcher. Email: f.giardina@erasmusmc.nl