

Fully funded three-year PhD position in virology / structural biology at the ENS de Lyon

The [lab of Christiane Riedel](#) is looking for a highly motivated, enthusiastic individual to pursue an EU funded PhD project. The aim is the determination of the structure of the arterivirus porcine reproductive and respiratory syndrome virus (PRRSV) by cryo electron microscopy. PRRSV is one of the economically most important pathogens of swine. It is a single stranded, positive sense, enveloped RNA virus that integrates different glycoproteins into its envelope. Currently, the structure of the PRRSV virion, especially regarding its surface glycoproteins, is unknown. Gaining structural insights into virion morphology is pivotal for the development of novel vaccine approaches, which are direly needed in the field. The successful candidate will (amongst other tasks) generate virus preparations, analyze them by cryo electron microscopy and determine the virion structure.

Christiane Riedel recently moved to the ENS de Lyon / Centre international de recherche en infectiologie (CIRI) as a professor and is focused on the structural and molecular biology of important veterinary viruses. This PhD position will be funded by the REPRODIVAC project under Grant Agreement No. 10106081 through the HORIZON-CL6-2021-FARM2FORK-01-06 Call.

What we are looking for:

Essential qualifications

- A master's degree (or equivalent) in biology, bioinformatics, biochemistry, medicine or veterinary medicine
- Good English proficiency
- Willingness to work in computational data analysis, electron microscopy and molecular virology
- Willingness to travel

Desired qualifications and skills

- Previous experience with molecular virology or electron microscopy
- Ability to work independently
- Good problem-solving skills
- Previous experience with Linux and programming
- Conversational level in French

What we can offer:

- A small, motivated team within a diverse research consortium ([REPRODIVAC](#))
- Affiliation with the doctoral school [BMIC](#)
- Interdisciplinary working environment within the [CIRI](#)

Closing date: when position is filled

Expected starting date: 01.06.2023

In case you are interested by this opportunity, please get in touch for further information or immediately email your CV and a letter of motivation to: christiane.riedel@ens-lyon.fr

