

Post-doctoral position « Pathogen-host interaction » (up to 3 years)

[Plague and *Yersinia pestis* team, Institut Pasteur de Lille, France](#)

The position

As part of an interdisciplinary project funded by the Priority Research Programs and Equipment (PEPR), we are seeking a motivated candidate to explore the molecular mechanisms employed by *Yersinia pestis* to infect fleas. This position is embedded within a collaborative project spanning natural and human sciences, aiming to unravel the mechanisms driving the spread of one of the world's most infamous infectious diseases: plague. The position will start in April 2025 for a duration of up to three years, or until filled.

The successful candidate will be encouraged to apply for a permanent research position within our national institution (Inserm & CNRS), and mentorship will be provided to support this process.

Candidate profile

PhD in biology with experience in microbiology (preferably bacteriology), molecular biology, and omics. Expertise in arthropod-pathogen interactions is a plus. A strong interest in host-pathogen interactions and evolutionary biology is essential. The candidate should demonstrate autonomy, strong communication and collaboration skills, and fluency in English.

The Lab and Working environment.

Our team comprises 12 members, including 4 researchers, 1 technician, 1 assistant engineer, 1 engineer, 3 post-docs, and 2 PhD students. Our laboratory stands out as the only one in Europe with the expertise and resources to comprehensively study the flea-mammal-flea transmission cycle of *Yersinia pestis*, supported by cutting-edge molecular biology and omics platforms.

As part of the Center of Infection and Immunity of Lille, we are located on the campus of the Institut Pasteur de Lille, which hosts 8 units and 34 teams. This dynamic environment offers access to complementary expertise across a wide range of disciplines.

The successful candidate will have opportunities to present his/her work at national and international conferences and contribute to high-impact publications. Assistance with relocation and settling in Lille will also be provided for international candidates.

Lille is a vibrant city with a large student population and is ideally situated at the crossroads of Europe, with direct connections to Paris (1 hour), Brussels (30 minutes), and London (<2 hours).

The employer

Member of the international network of Pasteur Institutes, the Institut Pasteur de Lille is an internationally renowned research center recognized for its excellence in infectious diseases, including the development of the BCG vaccine.

Contact and application.

If you are interested in this position, please submit your application to florent.sebbane@ibl.cnrs.fr. The application must include a CV, a cover letter and contact details of 3 references.