

**Five open postdoctoral and PhD researcher positions at Ecole Centrale de Lyon in soil nitrogen cycling, soil virus ecology, bioinformatics and atmosphere microbiology.**

**1. Three-year postdoctoral researcher position in soil nitrogen cycling.** EC-funded project 'ACTIONr' in collaboration with the University of Thessaly (Greece) and University of Vienna (Austria). The overall theme of the research programme is to elucidate the interaction of nitrification inhibitors with microbial communities involved in soil nitrogen cycling. Applicants must have a strong background in molecular microbial ecology and previous experience in nitrification research would be highly beneficial. Flexible start date but anticipate January 2023. Contact Prof. Graeme Nicol ([graeme.nicol@ec-lyon.fr](mailto:graeme.nicol@ec-lyon.fr)) and Dr. Christina Hazard ([christina.hazard@ec-lyon.fr](mailto:christina.hazard@ec-lyon.fr)) for further details of the project, application procedure or to arrange an informal online discussion.

**2. Two-year (minimum) postdoctoral researcher position in soil virus ecology.** We seek a researcher to examine the impacts of *in situ* and cultivated viruses on soil biogeochemical cycling. Applicants should have a background in virus cultivation and/or microbial ecology with substantial experience in metagenomics. Flexible start date but anticipate January 2023. Contact Dr. Christina Hazard ([christina.hazard@ec-lyon.fr](mailto:christina.hazard@ec-lyon.fr)) and Prof. Graeme Nicol ([graeme.nicol@ec-lyon.fr](mailto:graeme.nicol@ec-lyon.fr)) for further details of the project, application procedure or to arrange an informal online discussion.

**3. Fully funded three-year PhD position in soil virus ecology.** We seek a graduate student to examine the impacts of *in situ* and cultivated viruses on soil biogeochemical cycling. Applicants should have an appropriate degree in microbiology/virology with a keen interest to develop skills in virus cultivation or metagenomics. Flexible start date but anticipate January 2023. Contact Prof. Graeme Nicol ([graeme.nicol@ec-lyon.fr](mailto:graeme.nicol@ec-lyon.fr)) and Dr. Christina Hazard ([christina.hazard@ec-lyon.fr](mailto:christina.hazard@ec-lyon.fr)) for further details of the project, application procedure or to arrange an informal online discussion.

**4. Two-year post-Masters or postdoctoral researcher bioinformatics position.** We are seeking a highly motivated researcher to develop computing solutions in support of microbial ecology and molecular ecology research in our group in Lyon France ([www.GenomEnviron.org](http://www.GenomEnviron.org)). Our group focuses on the microbial adaptation to environmental perturbations with a range of model ecosystems from polluted soil to antibiotic resistance dispersion to human skin to Arctic snow.

Qualified candidates will have a Masters or PhD in computer science or life sciences with a computational focus. Candidates must be proficient in Python, R and shell scripting. Candidates must have experience working with next generation sequencing data and applicable bioinformatics algorithms and tools. Qualified individuals must be able to work both independently and harmoniously in a team of researchers with diverse backgrounds. Candidates must have strong communication skills and follow best practices in code documentation and general record keeping. Experience building bioinformatics workflows is a plus.

The position is available immediately and the contract could be for up to 2 years. If interested, contact Prof. Tim Vogel ([vogel@univ-lyon1.fr](mailto:vogel@univ-lyon1.fr)) for further details.

**5. One-year postdoctoral researcher position in atmosphere microbiology.** We are looking for a highly motivated candidate with a PhD degree in microbial ecology, and a background in environmental science to determine links between sugars/sugar alcohols (S/SA) and specific bacteria and fungi in the atmosphere. The goal is to identify possible microbial sources of S/SA in the atmosphere by studying the co-occurrence of S/SA species and microorganisms from a series of 600 atmospheric samples collected in different regions and seasons. The candidate must have a strong taste for data analysis, be autonomous and know how to take initiatives. Experience in atmospheric/analytical chemistry and data mining in R language and a strong early-career track record in science communication would be a plus. The position is available immediately. If interested, contact Catherine Larose ([catherine.larose@ec-lyon.fr](mailto:catherine.larose@ec-lyon.fr)) for further details.