

## Postdoctoral Research Fellow in Antibiotic Resistance

**NEIKER – Basque Institute for Agricultural Research and Development** is a public research institute member of the Technological Corporation TECNALIA, specialized in Agricultural Innovation, as well as Environment and Natural Resources. R+D+i at the Department of Animal Health (located in Bizkaia, Northern Spain) focuses on surveillance, control and prevention of animal diseases in livestock and at the livestock–wildlife interface.

We are seeking a postdoctoral fellow to work within the *Department of Animal Health* of NEIKER, in a project funded by the Basque Government to promote the rational use of antibiotics in Veterinary Medicine.

### Key tasks:

The position aims to comprehensively delineate the molecular epidemiology, nature and extent of Antimicrobial Resistance (AMR) in animal health in the “One Health” context to inform evidence-based strategies for its monitoring, prevention and containment by:

1. Instituting surveillance programmes on antibiotic use and resistance in animal health,
2. Demonstrating the phenotypic and genotypic mechanisms of antibiotic resistance by sensitivity testing and appropriate screening tests together with whole genome sequencing (WGS) and/or polymerase chain reaction (PCR) and DNA sequencing of resistance genes respectively,
3. Delineating the genetic determinants of resistance and clonality,
4. Developing procedures to reduce infectious diseases in animals and promote animal health to reduce antimicrobial consumption,
5. Developing novel diagnostic techniques,
6. Collaborate with relevant departments to improve capacities of the local systems to contain and decelerate the evolution and progress of ABR in the “One Health” context.

### Duties:

- Carrying out research contributing to the successful completion of the research project.
- Analysis of research gaps in the antibiotic resistance area.
- Critical analysis and compilation of published literature in the area.
- Planning and conducting scientific studies, including field work.
- Maintaining detailed records of the research.
- Manuscript preparation.
- Planning and participating in national and international meetings.
- Assisting with supervision of laboratory members working on the same research project.

### Eligibility:

- A PhD that was completed within five years of the application deadline (those applicants that received their PhD earlier will be considered if special circumstances exist).
- Experience in molecular microbiology and AMR are mandatory.
- Experience of bacterial genome analysis and knowledge of bio-informatics would be highly advantageous.
- Excellent communication skills, both written and oral.

Preference will be given to applicants with a veterinary/health sciences background

**Application Documents:**

1. A letter of motivation
2. Curriculum vitae including full academic record, experience and list of publications
3. The contact details of 2 academic referees.

**Benefits:**

Gross salary: It will be established according to the candidate's experience

Period: Three year contract

**Deadline:**

October 6

**Contact person:**

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