



INSTITUT DE L'AUDITION / INSTITUT PASTEUR / Postdoc ANSD

LOCATION: France › Paris

TYPE OF CONTRACT: Temporary

JOB STATUS: Full-time

HOURS PER WEEK: 39

Offer description

A postdoctoral position with 24 months of funding is available immediately for an advanced scientist in audiology, biophysics or neurosciences at the Centre for Research and Innovation in Humans (CERIAH) codirected by Professor Paul Avan and Professor Hung Thai-Van at the Institut de l'Audition, Institut Pasteur, in Paris, France.

We are seeking an outstanding, highly motivated postdoctoral fellow for a project on fine characterization of auditory impairments by developing an innovative set of objective audiological measurements and psychoacoustics in humans.

The goal of this large-scale project is to improve hearing aids for patients suffering from Auditory Neuropathy Spectrum Disorders (ANSO).

Institut de l'Audition and CERIAH

The Institut de l'Audition (Hearing Institute) is an interdisciplinary research institute with the objective of promoting integrative approaches to basic auditory neuroscience, developing innovative diagnostic tools and preventive and curative treatments for hearing disabilities. The Institut de l'Audition brings together world-class researchers from various fields, including neurophysiology, computational neuroscience, auditory cognition, genetics and genomics, cell biology and gene therapy. Most teams associate fundamental researchers and MDs and conduct research protocols applicable to humans with clinicians as co-investigators.

The Institut de l'Audition, located in the centre of Paris is hosting the Centre for Research and Innovation in Humans (CERIAH), dedicated to the running of research protocols on human volunteers (excluding clinical trials for drugs). Providing a very complete set of cutting-edge equipment, dedicated staff composed of research audiologists, engineers and project manager and know-how in all the auditory science domains, the CERIAH aims to increase the understanding of hearing problems, with a view to developing personalized medicine.

Mission

The postdoctoral fellow will work on a project, in collaboration with LORIA (Nancy, France) and CEA Tech (Paris Saclay, France) aiming to improve dissemination and capabilities of hearing aids for people with ANSDs.

- First, the candidate will have to master the basic exploration tools of the inner ear systems, namely otoacoustic emissions, audiometry, auditory electrophysiology and psychoacoustics,
- Then, the candidate will participate in the elaboration of the protocol (methods and set-up) for the research including ANSD patients,

- The candidate will also participate to the data collection in several dozens of participants with ANSD, in collaboration with audiologists in the Paris region and the experts of the CERIAH,
- From this data, the candidate will opt for the best signal processing strategies to improve speech in noise recognition for patients with ANSD,
- Finally, the candidate will evaluate the benefit of these different strategies to improve quality of life for patients with ANSD.

Qualifications

Candidate profile:

- A PhD in physics, biophysics, biology, neurosciences or related field is required,
- Experience in audiology would be highly appreciated,
- Experience or interest in research involving the human person,
- Some fluency in the French language will be a plus for conducting tests on volunteers.

Candidates should be experienced in the use of at least some of the techniques mentioned. The scope of the work can be tailored according to the candidate interests and skills.

We are looking for an autonomous, passionate and friendly person.

The position will be financed for two years with possible prolongation according to performance and grant application outcomes. The project will be conducted in the beautiful city of Paris, in the brand-new Institut de l'Audition which also may provide exciting career opportunities for young talented researchers. Interested candidates should submit a CV and cover letter mentioning a few referees who might provide a letter of recommendation.

Starting: October 2022 preferred

Net salary: 30 000 €/y minimum, according to experience

Team: CERIAH (Prof Paul Avan), Institut de l'Audition, Institut Pasteur, 63 rue de Charenton, 75012 Paris, France. <https://www.institut-audition.fr/en/articles/ceriah>

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