

2-YEAR POSTDOCTORAL FELLOW *Speech neuroengineering*



Full-time Fixed-term (extendable) Project Researcher

THE HEARING INSTITUTE (PARIS)

The Hearing Institute (<https://www.institut-audition.fr/en>) seeks to hire a postdoc to join the team **Neural Coding and Neuroengineering of Human Speech Functions** (Dir. Anne-Lise GIRAUD). Our laboratory is interested in understanding the computations that enable our brain to perceive and produce speech from a fundamental perspective in order to design targeted therapies for neurodevelopmental and acquired speech disorders.

Project Summary

The research project is aimed to develop a brain-machine interface to restore oral communication in patients with severe speech production disorders, by decoding speech directly from neural signals. The postdoc will analyze sEEG data recorded through intracerebral exploration using cortical electrodes, design new decoding methods and contribute building a novel BCI system.

Requirements

The ideal candidate should have

- a PhD in Neurosciences, Cognitive Science, or engineering;
- strong programming and statistical skills (Python, Matlab, R or similar);
- previous experience with M/EEG, or a background in research on neural oscillations;
- strong interest in the field of neurobiology and language impairment;
- strong language and writing skills in English.

Salary

Salary will be commensurate with experience according to the institutional guidelines. Gross salary ranges from 26 to 35 k€ per year depending on experience, and including health and unemployment insurance.

Starting Date

The position is available immediately and will remain open until filled. The expected start date is March 2022. The position is initially for 2 years, with the possibility of extension.

Scientific collaborator

Emmanuel Mandonnet, Hôpital Lariboisière and Institut de l'Audition

Applications

Please send a single pdf file containing a complete CV, a 2-page cover letter summarizing research interests and career goals, your most representative publication and contact information of two references by March 15th to anne-lise.giraud-mamessier@pasteur.fr, with vincent.petit1@pasteur.fr in Cc. Review of applications will begin on 1th Fev and remain ongoing until the position is filled.

Please see our team website for more information on research:

<https://research.pasteur.fr/en/team/neural-coding-and-engineering-of-human-speech-functions/>

Feel free to contact us for more information!