POSTDOCTORAL POSITION FOCUSED ON SIGNAL PROCESSING ENGINEER

Company Description

The Basque Center on Cognition Brain and Language – BCBL- (San Sebastián, Basque Country, Spain) is offering a postdoctoral position focused on SIGNAL PROCESSING ENGINEER, as part of an ERC funded research project OsciLang (PI: Manuel Carreiras).

Information

📅 Deadline: 2018-11-30
🗂 Category: Academia
🚩 Province: Gipuzkoa

💲 Country: Basque Country
🏭 City: Donostia-San Sebastian

Company

BCBL

bcbl
BASQUE CENTER
ON COGNITION, BRAIN
AND LANGUAGE

Main functions, requisites & benefits

Main functions

The goal of OsciLang is to provide an affordable, lightweight, wearable brain-computer-interface neurofeedback system that can facilitate the detection and treatment of language disorders such as dyslexia and specific language impairment (SLI). This tool will (a) diagnose/measure and (b) improve/rehabilitate an individual's ability to synchronize their brain's activity with changes in a speech signal. The successful candidate will join this challenging project . Work undertaken related to this position will be focused on the development the code to refine and optimize the software, test the system and create the prototype.

Requisites

Candidates with prior training in the engineering, IT with expertise in signal processing and neural processes are encouraged to apply; Applicants able to demonstrate such computational expertise will be considered from the cognitive sciences, broadly construed, including psychology, computational linguistics, computational neuroscience, computer science, machine learning, and cognitive science. In addition to strong computational skills, the successful candidate will demonstrate a high level of independence, and a strong publication record. As part of a broader ERC-funded bilingualism and literacy research program, the candidate will also have the opportunity to interact with and (if desired) complete research stays at related research groups at the BCBL.