

JOB POSTING
Postdoctoral Associate – EEG and Speech in Children

We are seeking a postdoctoral associate to contribute to a multi-year project funded by the Canadian Institutes for Health Research (CIHR) examining EEG markers of speech processing in children, and their relationship to reading and language impairments such as dyslexia and DLD. The candidate will join a diverse team of researchers in cognitive neuroscience, computational neuroscience, and communication sciences and disorders, led by Drs. [Marc Joanisse](#), [Laura Batterink](#), [Blake Butler](#) and [Janis Oram](#). Our research program involves collecting and analyzing EEG to natural speech in children ages 3- to 8-years, alongside measures of cognitive and language development, with a focus on multivariate temporal response functions (mTRFs) and related models linking auditory data to EEGs. The candidate will also analyze the relationships between brain and behavioral measures to better understand how EEG measures of speech relate to typical and impaired reading and language development. In addition to contributing to the project, the candidate will have the opportunity to investigate additional research questions within the fields of cognitive and computational neuroscience and communication sciences and disorders. Western boasts state-of-the-art developmental cognitive neuroscience facilities, including MRI/fMRI, multiple EEG systems, sleep labs, fNIRS, and TMS/TDCS/TACS. A state of the art OPM-MEG facility is also planned for 2025-2026.

As part of their role in the project, the candidate will assist with project management, collaboration across labs, liaising with community and partner organizations, supervising and mentoring graduate and undergraduate trainees, directing and/or conducting analyses, writing up results as presentations and journal articles, as well as communicating knowledge outside academia.

The salary for this position is \$65,000 per year, plus benefits. Information about benefits for postdoctoral associates at Western University is available at: https://www.uwo.ca/hr/benefits/your_benefits/pda/index.html. The successful candidate will report to Dr. Marc Joanisse, Department of Psychology. Review of applications will begin October 15, 2024, and will continue until the position is filled. This appointment can begin as early as November 1, 2024, with an initial appointment of one year and renewable up to a total of 3 years.

Applicants must have a Ph.D. in cognitive neuroscience, psychology, speech-language pathology, or a related field. The ideal applicant will have experience in one or more of the following: developmental cognitive neuroscience of language and/or cognition; EEG and/or related neuroimaging methods; computational skills related to applying machine learning to EEG or similar datasets. The ideal applicant will also have excellent written and oral communication in English, an emerging publication record, and excellent personal time management, project management and organizational skills. Applicants should submit curriculum vitae, a brief statement of research interests, a representative preprint or publication, and names and contact details (email and telephone) of two referees we may contact. Our team deeply values diversity and strongly encourages candidates from all under-

represented groups to apply, and to self-identify if they feel comfortable doing so. Informal inquiries are welcome.

Please direct your application and any inquiries to:

Dr. Marc Joannis
Department of Psychology
Western University
Email: marcj@uwo.ca

For more about Western's Centre for Brain and Mind, see <https://www.uwo.ca/bmi/>

About Western

Western ranks as one of Canada's top research-intensive universities. From fundamental to applied discovery and other scholarly activities, its scholars advance knowledge that provides tangible benefits for the economic, social, health and cultural development of citizens in London, in Canada and around the world. Western Research supports scholars through collaboration, communication, and service. Western University and its affiliate colleges received more than \$267 million in research funding over the past year.

Western Values Diversity

The University invites applications from all qualified individuals. Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups/visible minorities, Indigenous persons, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression. Accommodations are available for applicants with disabilities throughout the recruitment process.