The UBC Department of Psychiatry and the Non-Invasive Neurostimulation Therapies laboratory (NINeT) is recruiting for the position of postdoctoral fellow to focus on the investigation of functional targets to treat neuropsychiatric conditions (Depression, Schizophrenia, Alzheimer’s disease). The NINeT lab is committed to nurturing an inclusive environment where individuals from diverse backgrounds can thrive.

Anchored in the Department of Psychiatry and the DM Centre for Brain Health in Vancouver, Canada, the NINeT lab is focused on clinical research using Non-Invasive Neurostimulation therapies to treat neuropsychiatric conditions. The anchoring project is a 3-year CIHR-funded project that involves the use of interleaved TMS-fMRI to develop functional targets for depression using rTMS. In addition, the postdoctoral fellow will provide neuroimaging support across other studies that include neuroimaging, including support for data acquisition and analysis pipelines, mentoring of undergraduate and graduate students in the lab, and development of novel neuromodulatory and neuroimaging protocols for use across patient populations of interest.

Salary will be commensurate with education and experience. This position is available immediately.

The successful postdoctoral candidate will have a PhD training in method development experience in fMRI and neuroimaging signal processing software (AFNI, SPM, Freesurfer, FSL). Background in electrical engineering, computer science, or mathematics is highly preferred. Programming skills are required (Python, MATLAB, and/or other) as well as statistical analyses skills (using R, Python, other).

Experience with High Performance Computing, fMRIPrep, and TEDANA is desired.

Prior experience with Neuromodulation techniques is a plus.

Prior experience with teaching and supervision of students and technicians
We expect to be able to train a successful candidate in several of these areas according to her/his ability and interests.

**Department of Psychiatry**

Applicants are invited to submit a curriculum vitae including publication list, a one-page summary of research interests, and names and contact details of three referees to Dr. Fidel Vila-Rodriguez by email at fidel.vilarodriguez@ubc.ca

Closing date: August 31, 2022
Anticipated starting date of this position: This position is available immediately.

The University of British Columbia (UBC) is a global centre for research and teaching. Surrounded by the beauty of the Canadian West, UBC embraces bold new ways of thinking that attract exceptional students and faculty. It is a place where innovative ideas are nurtured in a globally connected research community, providing unparalleled opportunities to learn, discover and contribute.

Faculty members, students, staff and alumni in the UBC Faculty of Medicine are actively engaged in innovative, leading edge research, education and community service on university and hospital campuses across the Province. Together we aim to create knowledge and advance learning that will make a vital contribution to the health of individuals and communities, locally, nationally, and internationally.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.