



Washington University in St. Louis
SCHOOL OF MEDICINE

Department of Neuroscience

Call for application – two (2) postdoctoral positions available in our lab at Washington University in St Louis, MO USA

Two postdoctoral positions are available in our lab at Washington University in St Louis, School of Medicine. We are seeking candidates with a high degree of motivation and autonomy, exceptional presentation skills, adequate English fluency and an excellent record of publication.

Successful candidates will join our young, dynamic and newly renovated lab studying the role of astrocytes in information processing in the mammalian brain at the cellular, circuit and behavioral levels (<https://sites.wustl.edu/papouinlab/>). The ideal candidates will hold a PhD or equivalent, preferably awarded no earlier than 2016, be versed in the fields of astroglial biology, neuromodulation and synaptic physiology and/or will have experience using at least one of the following techniques routinely employed in our lab: analytical chemistry (chiral derivatization, HPLC); slice electrophysiology (patch-clamp, extracellular recordings); in vitro fluorescence calcium imaging and optogenetics; in vivo micro-dialysis, optogenetics and pharmacogenetics in behaving mice; mouse behavior; rodent surgery; and molecular genetics. Additional techniques readily available include (and are not limited to) in vivo two-photon microscopy in anaesthetized mice, STORM microscopy, SIM microscopy, light-sheet microscopy, transmission and scanning electron microscopy, Cryo-EM, X-ray nano-tomography (all available at Washington University Center for Cellular Imaging, tenderly referred to as the 'WUCCI'), CRISPR-cas9 and other genetic approaches (available at Washington University Mouse Genetic Core).

Funding will be provided for at least two years, during which the candidates are expected to secure their own funding for the forthcoming years through applications to various foundations and funding agencies. Direct assistance with this process, and overall mentoring, will be provided by the PI throughout the postdoctoral stay. Research projects are immediately available, but candidates will be expected to develop their own independent research program in parallel, in order to optimize their success as postdoctoral researchers and facilitate their transition towards independence.

The Department of Neuroscience at Washington University, ranked #2 for NIH funding last year, is made of over 30 different laboratories which research spans the entire field of fundamental and translational Neuroscience; from the basic understanding of the cellular correlates of behavior in invertebrates, to the epigenetics of developmental brain disorders and mechanisms of axonal repair. We also work closely with other departments, such as the departments of Anesthesiology and Psychiatry, and have outstanding access to clinical research and human subjects or tissue samples through partnerships with local hospitals such as the Barnes-Jewish Hospital at Washington University Medical Center.

This is a unique opportunity to work at a top tier American University, ranking #20 in the World Best Universities ([Shanghai ranking](#)) and #9 in the [Best Global Universities for Neuroscience and Behavior](#), with access to a virtually limitless array of techniques, in an exceptionally friendly and collaborative atmosphere. Our department is also proudly international in nature, with PIs and postdocs originating from Switzerland, France, Germany, U.K., Bulgaria, Italy, Spain, Canada, Russia, Korea, China, and India.

Applicants should contact Dr. Thomas Papouin directly, at thomas.papouin@wustl.edu. Please attach a resume/CV/Biosketch with list of publications and awards, if applicable. Include the contact information for two references. Positions start-date: summer 2019, but flexible. Applications will be considered until positions are filled.

More information about our lab: <https://sites.wustl.edu/papouinlab/>

More information about our department: <http://neurosci.wustl.edu/People/Faculty>

More information about the WUCCI: <http://wucci.wustl.edu/>

More information about the Mouse Genetic Core: <http://mgc.wustl.edu/>

More information about St Louis (New York Times 2018 article):
<https://www.nytimes.com/2018/03/14/travel/st-louis-budget-affordable.html>