Postdoctoral Research Scientist in Systems Neuroscience DEPARTMENT OF PHYSIOLOGY, ANATOMY & GENETICS UNIVERSITY OF OXFORD

By elsc_admin
Created 9/6/2016
By elsc_admin September 6, 2016
Postdoctoral Research Scientist in Systems Neuroscience Fixed term post on Grade 7: in the range of £30,738 to £33,574 (starting point on one of the first four points on the scale)

Applications are invited for a Postdoctoral Research Scientist to join Dr Michael Kohl’s group, to work on a project focused on investigating the necessity and sufficiency of rate and temporal neural codes for sensory perception. The project aims to examine the mechanisms by which rate and temporal codes could coexist in the brain by artificially biasing neural activity towards rate or temporal codes during behaviour by combining 2-photon imaging and holographic photostimulation. The post holder will perform optical recordings in awake mice performing perceptual discrimination tasks of varying complexity and optically manipulate defined sets of neurons during perceptual tasks to demonstrate the sufficiency of rate vs. temporal codes for task performance. You will hold, or be near completion of, a PhD/DPhil or equivalent in a relevant area of research. You must have experience with animal models, specifically rodents; optogenetic tools; two-photon imaging in vivo and/or behavioural training and testing using operant tasks; data analysis; use of coding in Matab and/or Python. A Home Office Licence (B and C) will be required for this post. You will be based in the Le Gros Clark Building, South Parks Road, Oxford OX1 3QX. The position is funded by the Human Frontier of Science Program (HFSP) for 12 months in the first instance although a further one year extension is expected, which will enable an extension of the contract. In addition to salary you will receive a generous annual leave entitlement, excellent development opportunities and a benefits package. The closing date for applications is 12:00pm (UK time) on Friday, 23 September 2016. Interviews will be held on Monday, 3 October 2016. For further information and to apply for the post, please visit: https://www.recruit.ox.ac.uk/pls/hrisliverecruit/erq_jobspec_version_4.j... ?Committed to equality and valuing diversity?
It is now widely accepted that deciphering the enigma of the brain is the most challenging intellectual endeavor of the 21st century, "The Century of the Brain" - Join our quest and become a friend of ELSC.

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

Get into our media channel and investigate ELSC's latest videos: seminars, public lectures, courses and video articles.