UNIVERSITY of ROCHESTER MEDICAL CENTER

STRONG MEMORIAL HOSPITAL
SCHOOL OF MEDICINE AND DENTISTRY
SCHOOL OF NURSING

DEPARTMENTS OF NEUROLOGY, NEUROSCIENCE,
AND BIOMEDICAL ENGINEERING

https://www.urmc.rochester.edu/labs/schieber.aspx

Post-doctoral fellowship – Mirror neurons: Observation of performance

A funded post-doctoral position is available for a project investigating the population dynamics of mirror neurons, pursuing our recent findings [Mazurek, KA, Rouse, AG Schieber, MH (2018) Mirror Neuron Populations Represent Sequences of Behavioral Epochs During Both Execution and Observation. *Journal of Neuroscience* 38(18):4441– 4455 <http://www.jneurosci.org/content/38/18/4441.long>]. We will examine whether mirror neuron activity is affected by communication between the performer and the observer, whether mirror neuron populations represent instructed delay periods, and whether different components of activity in mirror neuron populations can be dissociated. The project entails working with Rhesus monkeys and with implanted microelectrode arrays.

The successful candidate must have a Ph.D. in neuroscience, bioengineering or engineering, and a strong interest in cortical function. Experience with MatLab, intracortical microstimulation, neural recording, training macaques, and/or animal surgery are desirable.

The University of Rochester is a private university with a tertiary-care academic medical center and the well-known Eastman School of Music. Multiple laboratories use non-human primate models to investigate motor control, vision, and multisensory integration for communication. Located in western New York state, Rochester is a very livable, mid-sized city with affordable housing and easy access to live music and outdoor recreation of all kinds in all seasons.

Interested individuals can send a CV and contact information for three personal references to: mschiebe@urmc.rochester.edu.

Marc H. Schieber, M.D., Ph.D.

Professor of Neurology,
of Neuroscience,
of Biomedical Engineering
of Brain & Cognitive Science,
and of Visual Science

601 Elmwood Avenue, Box 673
Rochester, New York 14642

Phone: (585) 275-3369
Fax: (585) 244-2529
EMail: mschiebe@ur.rochester.edu