



The Monell Chemical Senses Center, founded in 1968, is the world's first nonprofit scientific institute devoted exclusively to basic research on the chemical senses: taste, smell, and chemosensory irritation. Research at Monell contributes to a wide range of scientific and practical knowledge including taste and smell loss with COVID-19. With more than fifty Ph.D.-level scientists, the Center is making major progress toward understanding how the chemical senses function and their importance in everyday life. The Center is located in the University City area of Philadelphia. For more information on Monell, please visit our website at www.monell.org.

The Bolding Lab at the Monell Chemical Senses Center is recruiting a Postdoctoral Fellow to carry out large-scale electrophysiological and optogenetic studies aimed at determining how odor recognition memories are embedded in cortical networks. Our goal is to discover fundamental rules and mechanisms that govern information storage and retrieval in neural systems. Our primary focus is establishing the changes in neural circuit and population dynamics that correspond to odor recognition memory. We will apply quantitative statistical approaches to relate behavioral signatures of odor recognition to activity and plasticity in olfactory circuits. We will use *in vivo* electrophysiology and calcium imaging to capture the activity of large neural populations during olfactory experience, and we will apply cell-type specific perturbations of activity and plasticity to distinguish how specific circuit connections contribute.

Please view <https://monell.org/postdoctoral/> for more information on postdoctoral training at Monell Chemical Senses Center. Please visit boldinglab.org for more lab-specific information.

Qualifications

- Ph.D., M.D., or equivalent degree is required. Many applicants come from fields outside the chemical senses. A background in chemosensory research is not required.
- Strong self-motivation, an interest in obtaining new skills, and a desire to work in a multidisciplinary environment are highly valued.
- The ideal candidate should be highly engaged by systems neuroscience research and have a strong interest in the questions our lab is pursuing.
- Experience with *in vivo* electrophysiology, calcium imaging in freely-moving animals, quantitative behavior analysis, machine learning / statistics, computational modeling, and design and operation of automated experimental systems (National Instruments, Arduino, Raspberry, etc) are valued.

Application Instructions

Interested candidates should submit the following documents to kbolding@monell.org. Informal inquiries are encouraged.

- Cover letter explaining your experience, research interests and career goals.
- Curriculum Vitae
- Names and contact information for three references.

Equal Employment Opportunity Statement

Monell Chemical Senses Center shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.