

Postdoctoral Research Scholar: Synaptic and Circuit Mechanism of Hearing and Balance

Position Description

The School of Life Sciences at Arizona State University invites applications for a full-time, fiscal-year appointment as a Postdoctoral Research Scholar. We are seeking a postdoctoral fellow to study the neurophysiological mechanisms of hearing and balance. The goal of the Balmer Lab is to discover how brain circuits function and how they contribute to hearing and balance. We investigate neurophysiological mechanisms on multiple levels of analysis, utilizing *in vitro* acute brain slice electrophysiology to study synapses, viral tracing to study brain circuitry and *in vivo* electrophysiology to study how cells and circuits underlie hearing and balance. Please see balmerlab.com. The qualified candidate is anticipated to start December 2021. Candidates must be within five years from receipt of their doctoral degree.

Essential duties

1. *In vitro* brain slice electrophysiology and/or *in vivo* auditory neurophysiology.
2. Collaborate with the research team in designing experiments, analyzing data and interpreting results.
3. Write scientific papers associated with the research.
4. Travel to meetings to present results.
5. Be an active member in research group activities (e.g., participate in lab meetings, mentor students).

Minimum qualifications

Successful candidates must have at the time of appointment an earned doctorate in a relevant field such as neuroscience, biology, physiology, and must demonstrate their dedication to research and scholarship. They must also have the capacity to work effectively in a research laboratory, a strong record of scholarly achievement, excellent communication skills, strong technical abilities and be independent, curious and motivated.

Desired qualifications

The ideal candidate would have experience with multiple practical aspects of the project duties with special emphasis placed on candidates who have experience in research utilizing techniques such as patch clamp electrophysiology, *in vivo* electrophysiology, viral tracing, or experience in auditory neuroscience.

Department information

The School of Life Sciences (SOLS) has provided a vital hub for creative excellence at Arizona State University, with more than 670 faculty, graduate students, postdoctoral fellows and staff, and research that ranges from studies on biodiesel and biohydrogen to vaccine development and the conservation of whales. As ASU's first academic unit to fully reflect President Michael Crow's integrated, interdisciplinary vision for the New American University, the School of Life Sciences offers active and evolving platforms for collaborative, cutting-edge research and faculty whose discovery is freed from traditional institutional boundaries.

Arizona State University is a dynamic, progressive university dedicated to interdisciplinary collaborations, to rethinking university education, and to integrating excellence in research and teaching. The university has been ranked #1 for innovation by the US News & World Report for the past five years. ASU's School of Life Sciences is committed to curricular innovation in traditional and digital learning environments.

The College of Liberal Arts and Sciences (<https://thecollege.asu.edu/faculty>) at ASU values cultural and intellectual diversity, and continually strives to foster a welcoming and inclusive environment. We are especially interested in applicants who can strengthen the College diversity of the academic community.

Application Instructions

To apply, please submit electronically to <http://apply.interfolio.com/95709> the following materials:

1. Cover letter and research interests. Applicants should describe experience and suitability for the position. Unlike a standard cover letter, this proposal should highlight the strengths of the applicant's experience towards developing and implementing proposed research.
2. Curriculum vitae or resume.
3. A statement addressing how your past and/or potential contributions to diversity and inclusion will advance ASU's commitment to inclusive excellence.
4. Contact information (name, email and phone) for two or three references.

Review of applications will begin November 1, 2021 and will continue to review bi-weekly until the position is closed.

A background check is required for employment.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.

<https://www.asu.edu/aad/manuals/acd/acd401.html>. <https://www.asu.edu/titleIX>.

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU's Annual Security and Fire Safety Report is available online at

<https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf>. You may request a hard copy of the report by contacting the ASU Police Department at 480-965-3456.