

A Postdoctoral Research Associate position in the field of neurodegenerative disease research is open at Arizona State University. The NIH and DOD funded research focuses on developing diagnostic and therapeutic agents for neurodegenerative diseases including Alzheimer's disease, Parkinson's disease, ALS and traumatic brain injury. The research projects focus on developing and utilizing novel reagents that selectively recognize disease specific protein variants utilizing a combination of phage display technology and Atomic force microscopy. The successful candidate will become part of an interdisciplinary team working in Dr. Michael Sierks' lab to develop the diagnostic and therapeutic potential of these reagents.

Essential Duties:

Development of novel antibody based reagents that selectively bind toxic protein variants implicated in neurodegeneration utilizing phage display libraries and atomic force microscopy. Development of diagnostic assays using the generated reagents as potential blood based biomarkers for specific neurodegenerative diseases including Alzheimer's, Parkinson's, Frontotemporal Dementia and ALS. Assays will utilize highly sensitive ELISA based assays. Development of therapeutic agents for treating neurodegenerative disease in animal models. Training and supervising graduate and undergraduate students. Communications including lab reports, scientific publications and/or protocols. Working in multidisciplinary teams, in different research areas, academic units. Reviewing the scientific literature to develop sound research plans and interpret results. Devising or helping to draw up new research proposals and applying for funding and grants along with producing content for research publications and presentations.

Minimum Qualifications:

- Applicants must have a recent Ph.D in Life Sciences, Biomedical Engineering or related field

Desired Qualifications:

- Experience with molecular biology techniques, ELISA, phage display technology and animal studies are desirable
- Excellent verbal, presentation, and technical report writing skills
- Ability to work within multidisciplinary project team

To Apply

Please submit to sierks@asu.edu as a single pdf document the following materials: 1) a cover letter specifying relevant qualifications and training, 2) curriculum vitae, 3) statement of current research interests and expertise (2-page maximum), 4) contact information for at least three professional references, and 5) list of recent publications. Please include **"Application for Postdoctoral Research Associate – Neurodegenerative disease"** in the email subject line. Initial review of applications will begin on **Aug 1, 2018**; As long as the position is not filled, review will continue every week thereafter until the search is closed. A background check is required for employment. Salary is \$48,000 per year depending on experience.

Arizona State University is a new model for American higher education, an unprecedented combination of academic excellence, entrepreneurial energy and broad access. This New American University is a

single, unified institution comprising four differentiated campuses positively impacting the economic, social, cultural and environmental health of the communities it serves. Its research is inspired by real world application blurring the boundaries that traditionally separate academic disciplines. ASU serves more than 80,000 students in metropolitan Phoenix, Arizona, the nation's fifth largest city. ASU champions intellectual and cultural diversity, and it welcomes students from all fifty states and more than one hundred nations across the globe. ASU is in the Phoenix metropolitan area in Tempe, Arizona and is one of the largest universities in the U.S. The Academic Rankings of World Universities has included ASU in the top-100 list of research universities and ASU tops the 2015 and 2016 U.S. News & World Report list of most innovative schools in the US. Thomson Reuters Science Watch ranked ASU's Department of Chemistry and Biochemistry (School of Molecular Sciences since August, 2015) 6th in impact worldwide, based on citation impact.

Arizona State University is 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.