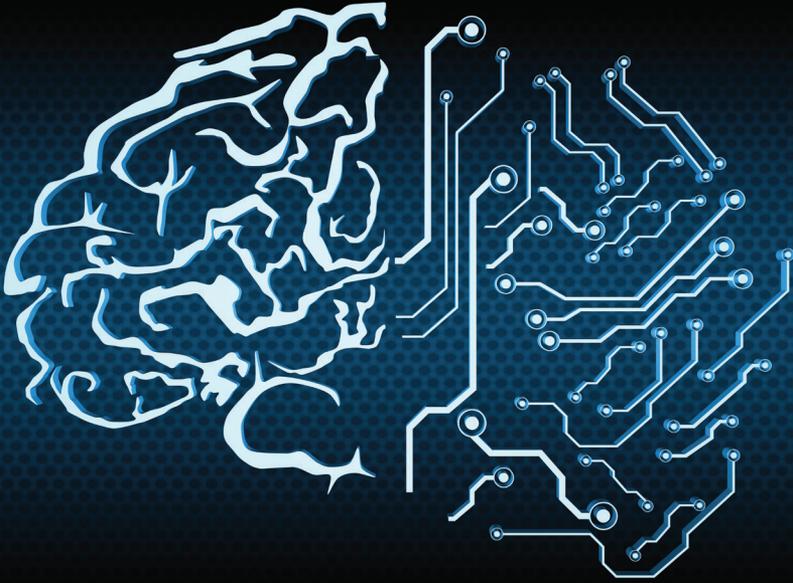


# NEUROSCIENCE AT ARIZONA STATE UNIVERSITY



An interdisciplinary PhD program

# ASU Interdisciplinary Graduate Program in Neuroscience

[neuroscience.asu.edu](http://neuroscience.asu.edu)

For more information contact:

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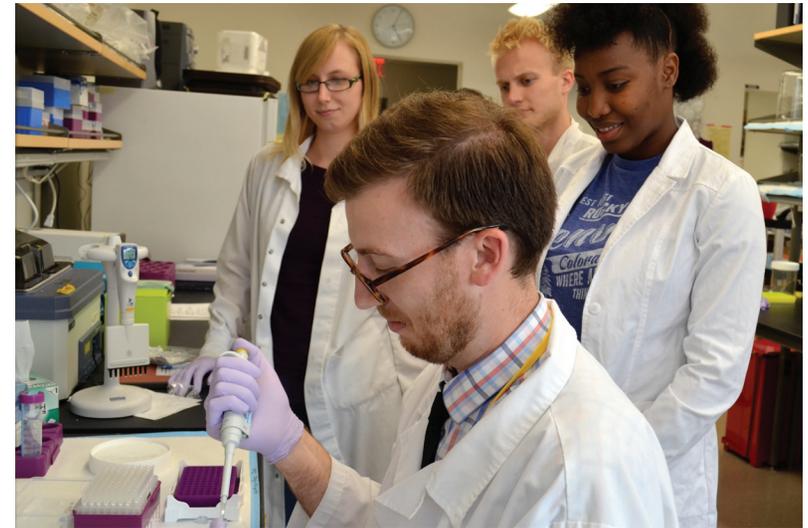
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## ASU Interdisciplinary Graduate Program in Neuroscience

Established in 2007, Arizona State University's Interdisciplinary Graduate Program in Neuroscience recognizes the health burdens that come with brain-related illness. To address these issues, ASU's neuroscience program has set out to uncover fundamental questions about the relationship between the brain and human behavior.

Graduate students in neuroscience gain real-world experience by collaborating with researchers from Barrow Neurological Institute, Translational Genomics Research Institute, and University of Arizona College of Medicine-Phoenix to translate discovery to clinical practice.

As our students investigate important brain-related health issues impacting individuals and their families, they remain intently focused on the goal of finding treatments and improving preventative health.

## Neuroscience research at ASU

### Making an impact

Brain-related diseases are often devastating and have a tremendous negative impact on the human race — costing billions of dollars in healthcare support and wreaking havoc on the quality of life. These debilitating diseases span from mental illness to addiction, Alzheimer's to Parkinson's, and to recovery after a concussion or stroke.

By furthering our understanding of the brain, our graduate neuroscientists are working to develop better treatments for brain-related illness.

### Neuro-degenerative disease

Debilitating diseases such as Amyotrophic lateral sclerosis (ALS), Alzheimer's and Parkinson's, form after cells in the brain break down. Current research is focused on detecting these diseases in the early stages to prevent or reduce the onset of symptoms and progression.

### Traumatic brain injury

Brain injuries resulting from strokes or concussions often leave victims with negative, long-term effects on their health. Research may help us generate new strategies to treat existing symptoms and to prevent future injuries.





## Mental illness

Conditions such as depression, anxiety and schizophrenia affect many families and require medical care. New approaches for treatment may have a positive impact on human health and well-being.

## Addiction

Recovery from alcohol, nicotine or other drug abuse has proven to be difficult. Cutting-edge research is improving scientists' understanding of how drugs specifically impact the brain. This knowledge may help doctors more effectively diagnose and treat substance abuse.

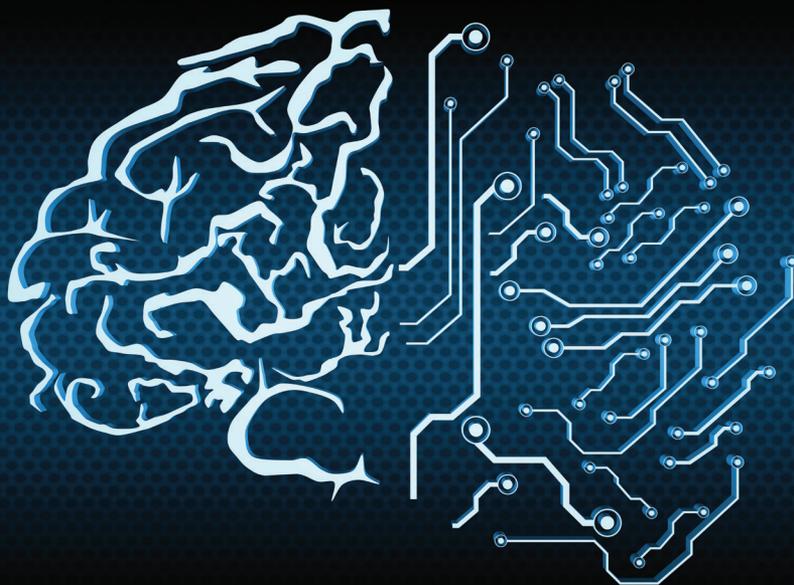
## Learning and Memory

Learning and memory allow us to function in our personal and professional lives. Research is underway to develop ways to improve learning strategies for children and to help older adults who may suffer from memory loss.

## Neuro-plasticity

The brain is capable of recovery after injury and current research aims to help improve this process. New therapies can help people who have suffered a brain injury to more quickly return to normal, daily activities by restoring and improving their memory, speech and movement.

Together, we can reach new frontiers  
in brain research.



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