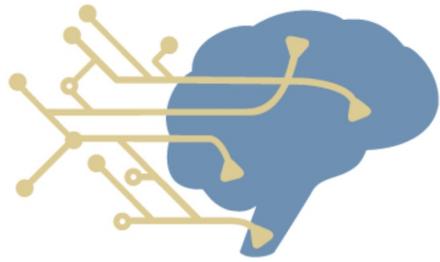


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# NEUROTECHNOLOGY

*a National Science Foundation Engineering Research Center*

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## Mission & Vision

### Mission

The CNT's mission is to develop innovative neural devices and methods for directing engineered neuroplasticity in the brain and spinal cord, which will improve sensory and motor function for people with spinal cord injury, stroke and other neurological disorders. Engineered neuroplasticity is a new form of rehabilitation that uses engineered devices to restore lost or injured connections in the brain, spinal cord and other areas of the nervous system.

### Vision

The CNT's transformational vision is to revolutionize the treatment of spinal cord injury, stroke and other debilitating neurological conditions by discovering principles of engineered neuroplasticity and developing neural devices that will assist, improve and restore sensory and motor function. Engineered neuroplasticity is a new form of rehabilitation that uses engineered devices to restore lost or injured connections in the brain, spinal cord and other areas of the nervous system.

We are developing neural devices based on principles of engineered neuroplasticity to significantly improve the quality of life for people with sensorimotor disabilities, most immediately benefitting patient populations with spinal cord injury and stroke. We are also discovering fundamental neuroscience and engineering principles with broader implications for treating other neurological conditions, such as Parkinson's disease and essential tremor.

Our unique innovation ecosystem helps to advance these research goals, bringing together researchers, educators and industry affiliates to train future neural engineers and efficiently move research discoveries out of the lab to benefit end-users of emerging neurotechnology.

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