To learn more about USC’s Department of Biomedical Engineering visit bme.usc.edu.

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BRAIN MAPPING
Professors Ellis Meng, Ted Berger and Dong Song, along with postdoc Kee Scholten and students Huijing Xu and Ahuva Weltman Hirschberg, have developed thin, flexible polymer-based materials for use in microelectrode arrays that record activity more deeply in the brain and with more specific placement than ever before.

CANCER THERAPY
Until now, it remained a mystery why tumors have different reactions to the exact same therapy. But a new study by Professor Stacey Finley and students Thomas Gaddy, Qianhui Wu and Alyssa Arnheim finds that tumor growth properties can influence response to cancer drugs.

MICHELSON CENTER
The lead faculty on these studies, Professors Meng and Finley, are members of the new USC Michelson Center for Convergent Bioscience. At the Michelson Center, researchers are working to solve some of the greatest intractable problems of the 21st century in biomedical science, including a fundamentally new understanding of the cell and new approaches for cancer, neurological and cardiovascular disease.

Exceptional Students

STUDENT SPOTLIGHT
Nina Singh (BS ‘19) is a two-time Astronaut Scholarship winner. She is currently developing a model to better understand cilia movement in order to remediate damaged or dysfunctional cilia. She is also working on an app to help cancer patients manage their medications and volunteers at the Violence Intervention Program.

ASBME
2018 BMES Student Chapter Outstanding Achievement Award

2018 Best Student Organization at USC Viterbi Makeathon – in 3 years, there have been 185 participants