MEET OUR LATEST NSF CAREER AWARD WINNER

KYUNGSUK YUM
Materials Science and Engineering Assistant Professor

THE UNIVERSITY OF TEXAS AT ARLINGTON • COLLEGE OF ENGINEERING
PROGRAMMING MATERIALS FOR SOFT ENGINEERING DEVICES

Kyungsuk Yum, an assistant professor in UTA’s Materials Science and Engineering Department, has been awarded a five-year, $500,000 NSF CAREER grant to design and develop bioinspired 3D materials with programmed shapes and motions. The research could transform the way soft engineering systems or devices are designed and fabricated, with potential applications in bioinspired soft robotics, biomedical devices, tissue engineering and artificial muscles – soft materials that change their shapes or move in response to external signals as our muscles do.

“Our discoveries so far have shown great promise, and I hope that we will be able to create materials that are capable of being programmed to perform much more complex movements. Previously, we focused on hydrogels, but now we will try to include biological cell components,” Yum said.

Read more at uta.edu/news/releases/2019/02/Yum-NSF-CAREER-award.php