

Boston Engineering Corporation

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FOR IMMEDIATE RELEASE

Boston Engineering Selected as Engineering Partner in Development of Research Platform for AI-designed Biosensors

Waltham, Mass - Boston Engineering is proud to announce its selection as an engineering partner supporting ongoing research into the potential of xenobots, amphibian based biological "robots" (biobots) being developed to act as biosensors.

In collaboration with Tufts University, the University of Vermont (UVM), and a professional ethicist, Boston Engineering is designing an automated system for scaling Tufts' biobot experiments and production. The system will interface with UVM's AI, which will be informing and advancing biobot design to achieve desired functionality.

"Boston Engineering is developing the automated robotic scientist, which uses various stimuli to program the biobots," says CTO Mark Smithers. The resulting performance will be sent to and used by an AI system to analyze and suggest additional development steps to enhance or change the results. The new recipe is then sent back to the robotic system and the process starts again.

"AI driven discovery will eliminate hours of hands-on management of the stimulation process and increase the throughput of experiments during development – ultimately, streamlining efforts to scale biobot production," according to Smithers.

Boston Engineering's selection builds on their expertise in Robotics and Complex Systems Engineering.

For more detailed information on the amphibian xenobots and the goals of the project, visit the following sources:

- Scientists Create the Next Generation of Living Robots:
<https://now.tufts.edu/2021/03/31/scientists-create-next-generation-living-robots> ; Mike Silver, March 31, 2021

- These Researchers Used Artificial Intelligence to Design an 'Animal Robot' That Has Never Existed: <https://www.youtube.com/watch?v=8WyWFAS96ac>

For more information about Boston Engineering's involvement, please contact Robert Davis (rdavis@boston-engineering.com) or visit www.boston-engineering.com.

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Boston Engineering provides product design and engineering consulting from concept through commercialization. Our mission is to improve the way people work and live through innovative product design and novel engineering, and we thrive on making the meaningful impact that comes from solving tough challenges.

With three decades of thought leadership and diverse industry experience, Boston Engineering has transformed hundreds of bold ideas into indispensable products and game-changing solutions. We help clients capture emerging market opportunities by understanding complex challenges and bringing together the right subject matter experts to drive innovation and true transformation.

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