The E-ROBOT Prize:

Soft Mechanical Metamaterial Robots for Opaque Envelope Retrofits

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MULTISCALE SYSTEMS
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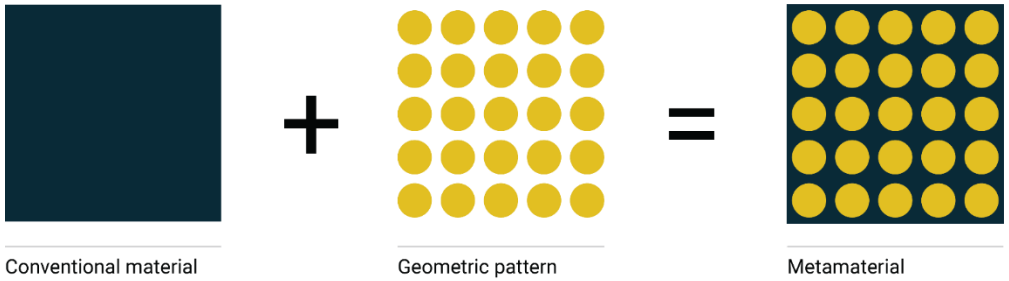
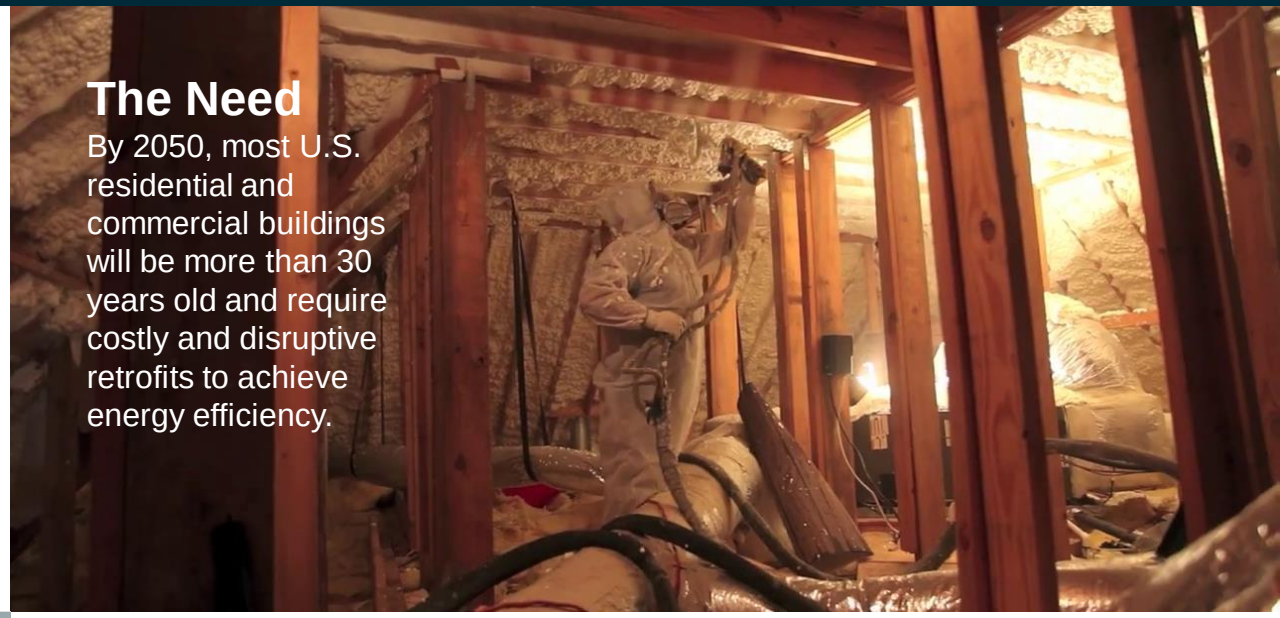
We make mechanical metamaterials

Instead of creating materials through chemical or molecular engineering, we design geometric patterns that enhance conventional materials with new functionality.





The Need

By 2050, most U.S. residential and commercial buildings will be more than 30 years old and require costly and disruptive retrofits to achieve energy efficiency.

Our Solution

Replace costly machines with low-cost metamaterials to produce soft shelled, low-profile robots that navigate tight spaces where humans and servo-controlled robots can't reach.

Watch our submission video for more on our solution:
https://youtu.be/3_fiq4DAqao

Why Us?

We are a partnership representing industry, academia, accelerators, and commercialization partners - all with a track record of success.

ARMORY TECHNOLOGIES

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