

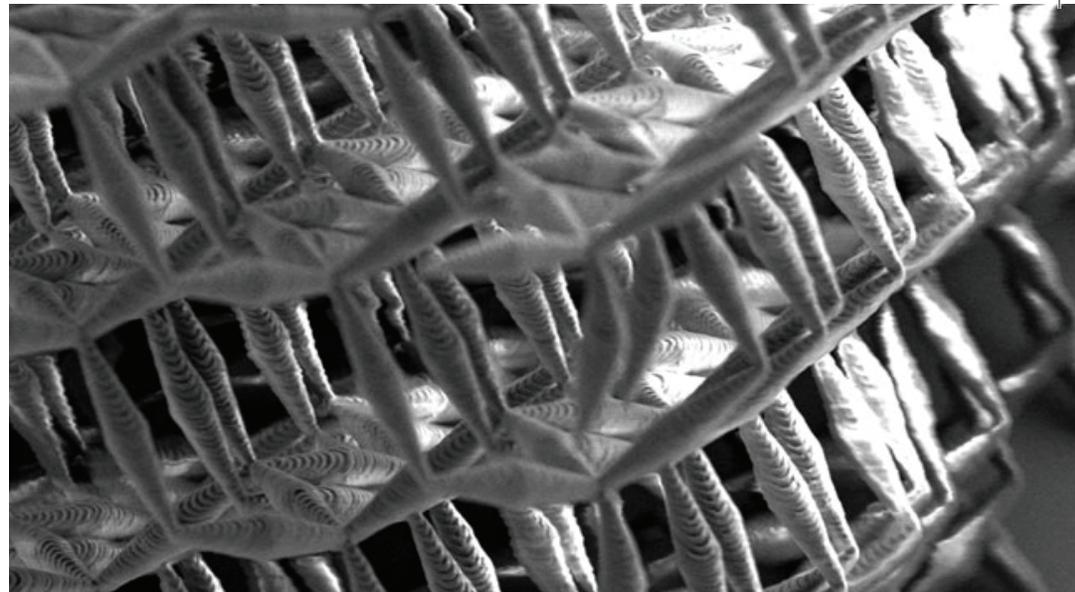


CELL-MET

Be a Corporate Member of a World Class Team

To learn more and for future announcements, contact:

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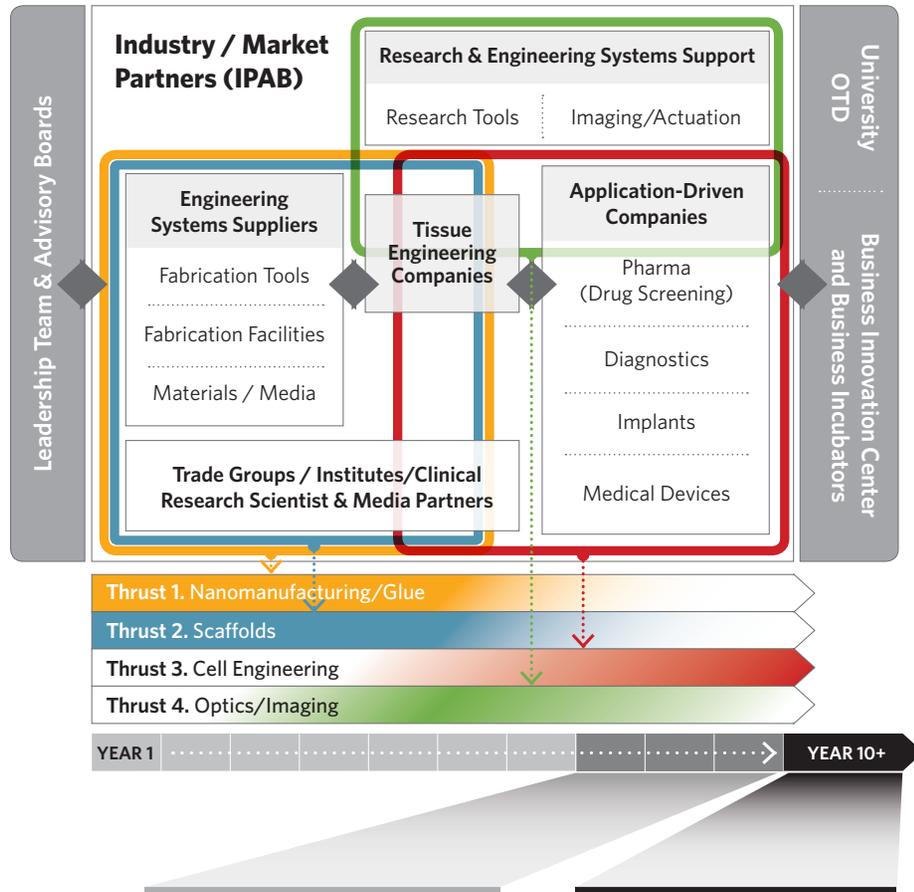
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Be part of revolutionary advancements that will replace diseased human organs

Why is this now possible?

The Innovation Ecosystem



Multifunctional model of human heart tissue

- Platform for fluid transport studies
- Test bed for drug testing and development
- Implantable tissues to assist cardiac function

Muscle tissues that can assist cardiac function

Centimeter scale cardiac tissue with complex functionality including heart chambers, large vessel trees, cardiac valves, and conduction system.

Recent Nanoscaling Enabling Technologies

Nanomechanics

- Arbitrarily complex multiscale (nm > cm) mechanical structures
- Impedance-based biosensors
- Nanoscale actuators, ECMs on polymer scaffolds, novel polymer materials

Nanoscale Printing

- Atomic Calligraphy
- Organic Vapor Jet Printing
- Origami, Kirigami for folding sheets

Imaging

- Large, fast, affordable SLMs
- High power, stable lasers at the correct wavelength
- Giant Quantum Dots for guide stars
- Photonic wirebonds

Cell Engineering

- Optogenetic control of cells, tissues and organisms
- Engineering control over differentiation/maturation of stem cells
- Vascularization techniques developed for cardiomyocytes



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