



# **2023-2024 Sponsorship Packet**

# Who We Are

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DEBUT is a biomedical project team at Cornell University focused on creating innovative biomedical devices to submit to a national competition of undergraduate students. Our team has members from five different colleges at Cornell working together to make advancements in the medical field.



# The Competition

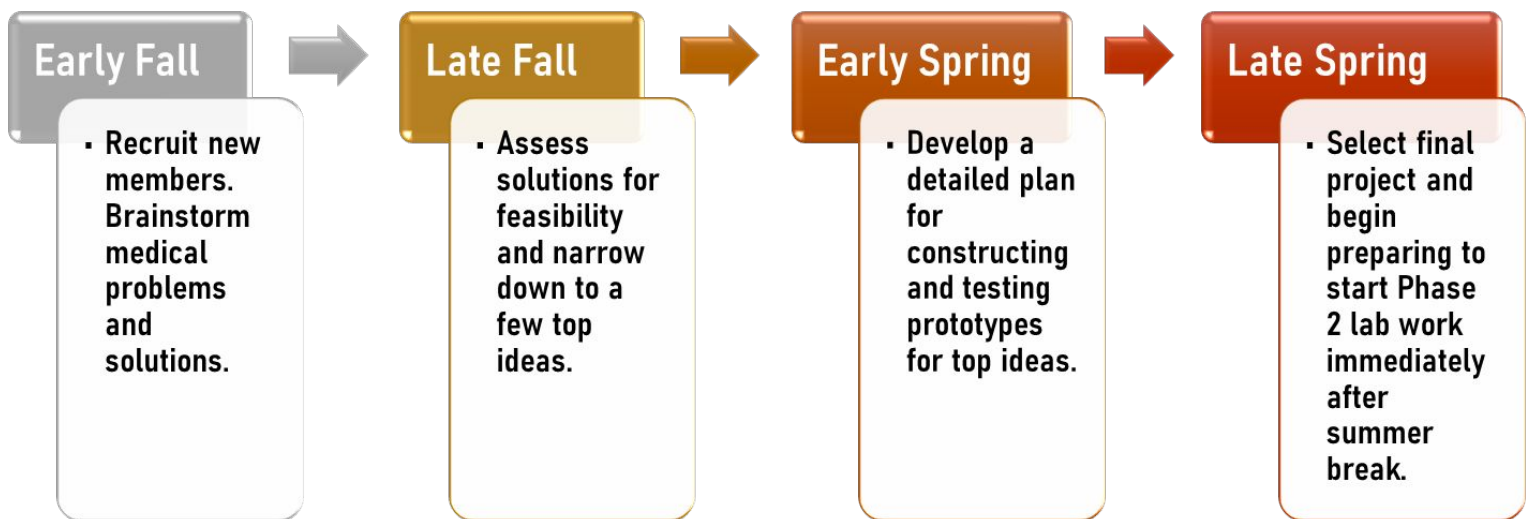
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- ❖ Design by Biomedical Undergraduate Teams challenge is, a competition that recognizes undergraduate excellence in biomedical design and innovation.
- ❖ Final design is judged on significance of the problem being addressed, impact of proposed solution on potential users and clinical care, the innovative design, a working prototype, market potential, economic feasibility, and patentability.
- ❖ Sponsored by The National Institute of Biomedical Imaging and Bioengineering and VentureWell

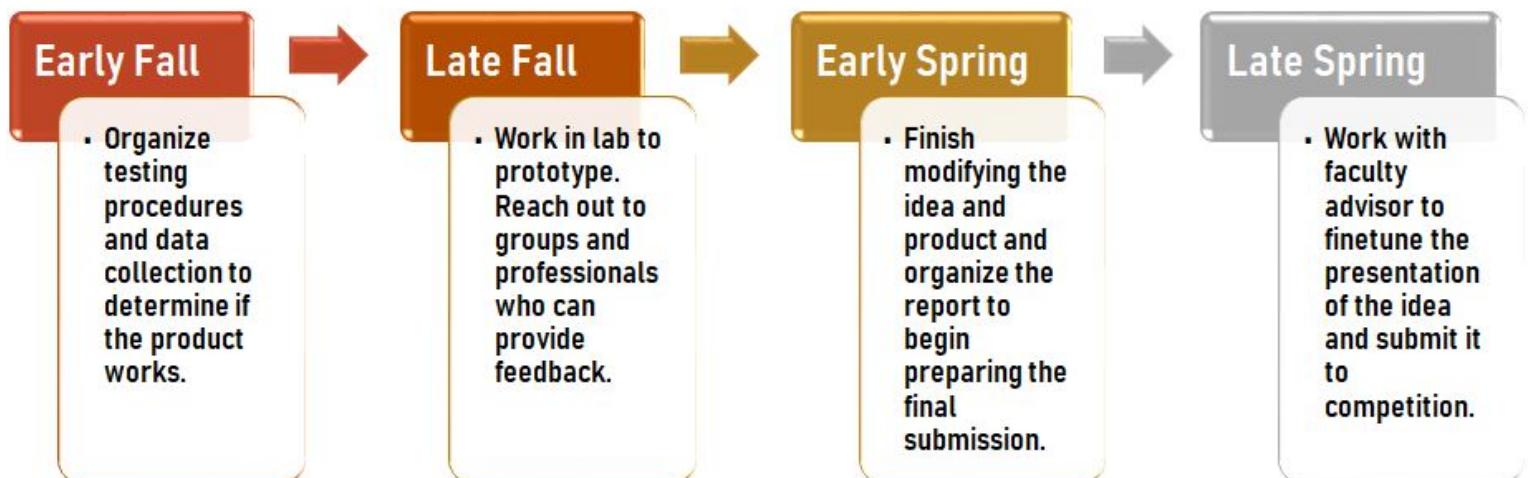


# Our Timeline

## Phase 1: Year 1



## Phase 2: Year 2



# Our Goals

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## **Winning the competition**

DEBUT at Cornell's primary goal is to win our namesake competition. This will expand our team's reputation as well as the prize fund will contribute to our team's ability to expand and have further success.

## **Expanding the Team**

Biomedical engineering is one of the fastest growing majors at Cornell and DEBUT is one of the only teams that provides an opportunity for them to get hands on experience in the field. We want to expand our team at a rate comparable to the major in order to keep up with the influx of students passionate about our field.

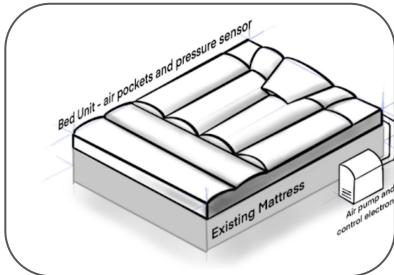
## **Create Solutions to Healthcare Problems**

At its core biomedical engineering is about finding and solving problems for real health issues people face and we strive to create those solutions.

## **Patent Our Technology**

Once we create the solutions we want to be able to bring them to the market because we believe that we are making technology that will positively impact people's lives. Therefore we want to work on patenting our technology after submitting it to the competition as an expansion on the function of our team.

# Prior Projects

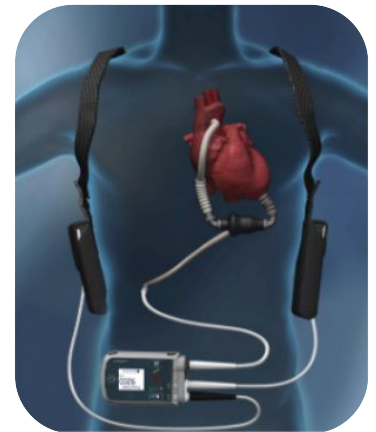


## PUPIL - 2021

- ❖ Pressure Ulcer Prevention Intelligence Layer
- ❖ Pressure sensitive mattress topper.
- ❖ Uses air pocket deflation and inflation to relieve bed sore prone skin areas from excessive and prolonged compression.
- ❖ Concentrates more air pockets in bedsore-prone areas.

## Intelli-Patch - 2022

- ❖ Detects driveline infections of left ventricular assist devices (LVADs).
- ❖ Measures discharge levels and color metric change of the bandage.
- ❖ Ability to diagnose infections early to decrease driveline infection deaths.

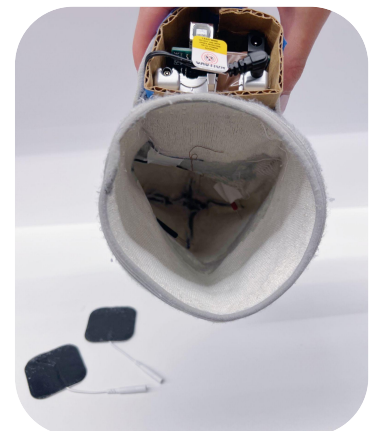


## MobiLab - 2023

- ❖ Uses colorimetric assay to detect biomarkers for pancreatic cancer.
- ❖ Utilizes centripetal force and capillary action to optimize production of colorimetric signal.

## Block Phantom Limb Pain - 2023

- ❖ Sense and response system that perceives an individual limb's location in the walking cycle.
- ❖ Sends an electrical stimulation using a TENS device during critical pain points in the cycle.
- ❖ Distracts severed nerve by sending electrical impulses.



# Sponsorship Tiers

	Platinum	Gold	Silver	Bronze
Cost	\$1,000+	\$750+	\$250+	\$100+

## Benefits

Recognition on Team Website	✓	✓	✓	✓
Small Sponsor Name and Logo on Apparel	✓	✓	✓	✓
Spotlight on All Team Social Media	✓	✓	✓	
Large Sponsor Name and Logo on Apparel	✓	✓	✓	
Receive Copy of Team Resume Book	✓	✓		
Recognition in Team Competition Video	✓			
Receive Team Photograph and Apparel Package	✓			
Networking Event with Current Team Members	✓			



# Contact Us

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