The UC Merced Venture Lab is a community business incubator that partners with people to design and grow new businesses.

We help people explore entrepreneurship as a career, with the goal of strengthening and diversifying the economy through creation and attraction of new businesses, to create new jobs and to deliver on the promise of innovation.

TO LAUNCH NEW COMPANIES, THE UC MERCED VENTURE LAB OFFERS:

- MENTORS
- FREE LEGAL ADVICE
- CONNECTIONS
- CO-WORKING SPACE
- SEMINARS & WORKSHOPS
- NETWORKING
Who is in the UC Merced Venture Lab?

As of October 2017, the **UC Merced Venture Lab** has a total of 47 members.
What are the stages of developing a business in the UC Merced Venture Lab?

1. Idea / Value Proposition
   What is the business idea?

2. Market Research
   Who is the customer? What do they want?

3. Market Fit Assessment
   Can we deliver value to the customer?

4. Business Model / Launch Plan
   How will we make it happen?

5. Launch
   Doing business!
How are our members progressing?

Number of Business Concepts by Stages of Development

- Idea/Value Proposition: 1
- Market Research: 12
- Market Fit Assessment: 0
- Business Model / Launch Plan: 4
- Launch: 2
## UC Merced Venture Lab Business Concepts

### Venture Lab Members

<table>
<thead>
<tr>
<th>Concept</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Agricultural Lighting</strong></td>
<td>Specialized agricultural lighting for indoor plants or animals</td>
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<tr>
<td><strong>BEAT</strong></td>
<td>Educational company that provides K-12 STEM education and professional</td>
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<td></td>
<td>development to teachers.</td>
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<tr>
<td><strong>Call to Inspire</strong></td>
<td>Nonprofit that creates programs designed to reduce bullying in schools for</td>
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<td></td>
<td>students K-3.</td>
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<td><strong>Cardiac Arrest Prediction</strong></td>
<td>Tool that assists patients with detecting oncoming cardiac arrest</td>
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<td><strong>Division Workshops</strong></td>
<td>Dance company that brings inspiration, innovation, and growth to dancers and</td>
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<td></td>
<td>their communities regionally, nationally, and worldwide.</td>
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<tr>
<td><strong>Eirene Technologies</strong></td>
<td>Quantum device for detecting stealth threats encountered at the border.</td>
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<tr>
<td><strong>Enfant</strong></td>
<td>A tool that translates the needs of infants into actionable decisions.</td>
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<tr>
<td><strong>Gold Nanoparticles</strong></td>
<td>Nanoparticles that can be used to deliver medication to patients with cancer.</td>
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<td><strong>Grocery Shopper</strong></td>
<td>Provides grocery shoppers with nutrition-comparison tools.</td>
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<tr>
<td><strong>Iterate</strong></td>
<td>A educational tool to learn coding</td>
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<tr>
<td><strong>LaunchList/Ordino</strong></td>
<td>Software for managing and editing large image collections.</td>
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<tr>
<td><strong>MapCat</strong></td>
<td>Smart Grids for rural communities</td>
</tr>
<tr>
<td><strong>PTSD Device</strong></td>
<td>Device to assist hyperventilating patients.</td>
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UC Merced Venture Lab Business Concepts

Security System
Software that improves the landscape of consumer-level security devices

Selfless Health
Donation based website that creates transparency between donors and recipient.

Solar Construction
Integrating novel solar energy conversion systems with construction to develop self-sustainable homes in Merced.

Sweep Energy
Software that assists large production facilities with data management and diagnostics.

Tau Ceti Labs
Teaching science and engineering through quality stimulation games.

Tergis Tech
A medical device company that focuses on making hospitals cleaner through Solutions mechanical means, rather than pharmaceutical.

Tiny Home
The vision for Tiny Home Communities is to design a creative space for entrepreneurs, creators, innovators, engineers and new startups to prototype their eco-friendly and self sustainable designs in the interest of society and local economies.

Town, Inc.
Incorporation of a local town into a city of innovation

Yosemite Excursions
Concept that combines customized adventures with outdoor education to positively influence our impact on the environment.
UC Merced Venture Lab Affiliate’s

**ACT 4 Media**
Establishing a rental house located in the Central Valley and Sacramento Delta region to fulfill film needs between Los Angeles and San Francisco.

**ArqBravo Group**
A sustainable transportation solutions company exploring manufacturing opportunities in the Central Valley.

**BioSynesis Inc.**
A contract research and manufacturing organization, specializing in the development and manufacturing of Genomic and Proteomic products.

**Brilliant Perspective**
Startup Drone business currently using drone scouting equipment to help manage crops.

**Farb Guidance Systems**
Removing the driver from farming machines to give farmers full control and command of their fields with the use of the industry’s latest guidance technology.

**Life Saving Images**
Mobile mammography company dedicated to convenient health screening.

**Livermore Group**
Help in contributing technical experience to new venture concepts in an advisory capacity, such as proposal development.

**LivTechs**
A business that provides supplies computer hardware and software to defense, aerospace and intelligence agencies.

**SIGBT**
The Super-Insulated Green Wall aims to help people interested in building cost effective energy efficient homes that can be easily and quickly constructed with minimal training.

**New Business Practicum**
UC Berkeley Law School’s New Business Practicum helps low-income entrepreneurs with limited legal services, by answering questions, providing template forms, and giving guidance on common legal issues.

**VGG Consulting**
Provides consulting and advise on international careers in science, higher education, and engineering.
I graduated from UC Merced in May 2014. I stayed and worked in the lab as a Junior Specialist for one year before quitting to start BEAT. I started BEAT two years ago with Steven Duval Ruilova. We originally created BEAT to address the lack of Scientific Literacy in the Central Valley by offering Science, Technology, Engineering, & Math (STEM) based lessons to local schools. I have been able to grow the business to address multiple education deficiencies in the Central Valley, such as aligning STEM lessons with the new Next Generation Science Standards, and creating novel Career Technical Education curricula.

I also started Tergis Technologies in the summer of 2017 with my partner, and co-inventor, Paul Barghouth. Our flagship product is a humidifier for ventilator gases that can reduce the possibility of condensation forming in the ventilator circuit, which can prevent Ventilator Associated Pneumonia (VAP.) We created this product as undergraduates in our Capstone class, and we are currently awaiting FDA approval for the device. We hope to start production of the humidifiers by the end of the second quarter next year, 2018.

I am an undergraduate at the University of California, Merced, pursuing a B.S. in Mechanical Engineering. The main objective of my research is to 3D print bicycle frames custom for individual riders. I create complex geometries which allows the frame to be manufactured with a variety of materials that are more cost effective and sustainable. Each frame can be tailored to the rider’s size, skill, and aesthetic preference. In addition to my research, I am the vice president of the UC Merced Cycling team and a trail builder at Exchequer mountain bike park, where I am able to share my passion for cycling and engineering with my campus and local community.