Invention to Impact!

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USC Viterbi
School of Engineering
The Los Angeles start-up scene
Silicon Beach is growing....

Los Angeles booms as a startup hub

Six Los Angeles Entrepreneurs Share Why Their City Is So Great For Starting A Business
Success Stories
Mission

The Viterbi School Office of Technology Innovation and Entrepreneurship will:

- Educate engineers on strategies to develop, integrate, and sustain technologies addressing significant needs
- Launch ventures with meaningful social and economic impact based on USC faculty, students, and technologies.
Philosophy

- Structure
- Culture
- Theory
- Lab
- Synthesis
The 4 C’s of Viterbi Student Innovation Institute (VSi2)

- Curriculum
- Co-location
- Competitions
- Community
Curriculum

- **ENGR 102 (fall 2018):** Freshman Academy
- **CE 499 (fall 2018):** Innovation in Engineering Design for Global Challenges
- **ISE 585 (fall 2018):** Strategic Management of Technology
- **CSCI 404 (spring 2019):** Capstone course
- **CSCI 599 (spring 2019):** Hacking for Defense
- **ITP courses in Digital Entrepreneurship Minor (310, 320, 411, 470, 466, 476, 479, 496)**
- **ENGR 461 (fall 2019):** Engineering Economics and Technology Development
Co-location – Viterbi Startup Garage

- Marina Del Rey
- Home for investor screenings
- Academic year: Home of multiple events
- Summer: Home of Summer Smasher program – immersive student internship experience

http://viterbiinnovation.usc.edu/vsg/
Co-location - Hacker House

- Kerckhoff Hall (Adams Blvd.)
- All VSOE organizations may use this for meetings as needed
- Contact Prof. Trina Gregory – trinagre@usc.edu
Amazon Alexa project

- Customer discovery for voice-triggered applications
- Additional session led by a technical mentor from Amazon
- Opportunity for extra customer discovery funds
- Final presentations to Amazon
- Applications have passed: But let us know if you have a new idea!

- http://viterbiinnovation.usc.edu/alexa/
Synchrotron

- Focus on equity splits, early hires, structuring a company
- Taught by former VPs and corporate leaders
- Held in Viterbi Startup Garage or virtually
- Must have a business model in mind and customer discovery experience

http://viterbiinnovation.usc.edu/synchrotron/
Summer Smasher

- Objective: Broaden student experience beyond traditional engineering curriculum
- VSOE interns join startup companies in VSG
- Guided sessions to help maximize your experience
- Info session in late Feb
- Application deadline March 17
- Match day in April
- 2018: 90+ students applied; 22 accepted as Entrepreneurs in Training (EIT)

http://viterbiinnovation.usc.edu/summer-smasher/
Atoms, Bits, and Cells (ABC) Undergraduate Prizes

- 3 prizes of $1k each per team
- Application deadline: Jan. 13
- Participate in VSi2 workshops
- [http://viterbiinnovation.usc.edu/abc/](http://viterbiinnovation.usc.edu/abc/)
Hacking for Defense (H4D)

- CSCI 599
- Taught by combination of faculty (Prof. Neuman) and military experts
  - Learn about real national security issues
  - You do not need to be a US citizen
  - Last year we sent a team to the Pentagon!
  - Includes networking with military leadership
- [http://viterbiinnovation.usc.edu/h4d/](http://viterbiinnovation.usc.edu/h4d/)
- Thursday 3:30-6:50, VKC 260
Project SUNRISE: Students UNiting for Real Impact for Society through Engineering

- Topic: Preventive Health for Vulnerable Populations
- Partnership with LA County Department of Health Services
- Problem discovery trips Jan. 18 and Jan. 25
- Prototype funding in spring 2019
- Present to investors at our spring showcase – and make LA a better city through engineering!

http://viterbiinnovation.usc.edu/sunrise/
Innovation Corps ("I-Corps")

- Support to commercialize technologies developed in universities
- $50,000 grant from National Science Foundation
- Must have intellectual property (no apps)
- ZAP! can be used to qualify
- ZAP! also enables you to present at annual Technology Scouting Workshop (speakers from Amazon, Boeing, Google, Dow, NASA, NTT DoCoMo, more…)

http://lanode.org/zap/
Office Hours

- Not sure where to go?
- Join us for office hours with mentors and investors
- Email Prof. Trina Gregory - trinagre@usc.edu
Join us on the inside!

- We are looking for interns interested in – viterbi-innovation@usc.edu:
  - Communications (web site, social media)
  - Running student competitions and challenges (communicate with investors and stakeholders)
  - Supporting the extra curricular classes (act as a TA)

- Research opportunities – abelz@usc.edu
  - Systems engineering
  - Economics
  - Computer science (especially text analysis)
Join us!

**Interest**
- VSEE, ISE 585, H4D
- VSi2 speakers
- Summer Smasher

**Invention**
- SUNRISE
- Office Hours
- Competitions/VSi2 workshops

**Investigation**
- I-Corps pipeline (ZAP, BOOM, BLITZ, National cohorts)
- Synchrotron

**Intensity**
- VSG residence, associates
- Showcases, networking
Questions?

http://LANode.org/

http://ViterbiInnovation.usc.edu/

Viterbi-innovation@usc.edu