

ENGINEERING



# VITERBI EXPO



**USC**  
**Viterbi**  
School of Engineering

November 24, 2013  
Ronald Tutor Hall

# *Welcome* to the USC Viterbi School of Engineering

Today is your day to learn as much as you possibly can about the USC Viterbi School of Engineering.

## ***There's a lot to see!***

Lab Tours will depart from Bloom Walk on the north side of Ronald Tutor Hall (Be sure to grab your tickets early). Some labs in the building will be open throughout the afternoon as open houses and are scattered throughout the building. Micro-Seminars will take place at scheduled times in first floor classrooms and on the second floor. Student organizations and Design Teams are showing off their projects and accomplishments as part of a fair on the first and second floors. To top it all off, our Student Affairs staff are on the first floor to talk to you about the Viterbi Programs we manage.

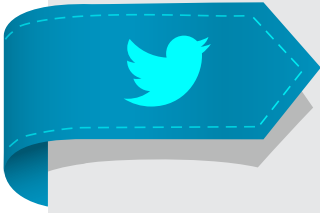
## ***Want to talk about something?***

Get your questions answered by an admission counselor near the staircase on the first floor. Whatever your questions are - we can help!

## ***Hungry?***

Enjoy a snack, beverage or your favorite coffee drink from our cafe on the first floor in your free time.





# #ViterbiEXPO

Join us in the conversation on Twitter. Ask questions, share your photos, videos, comments and more.

Use **#ViterbiEXPO** for today's activities and follow the conversation for a few surprises as well!

## STUDENT GROUPS

*Meet a ton of students as they represent their organizations and discuss projects on which they are currently working.*

### 1st FLOOR

Alpha Omega Epsilon (Engr. Sorority)  
Associate Students of Biomedical Engineering  
Engineers Without Borders  
Institute of Electrical and Electronics Engineering  
National Society of Black Engineers  
SC Racing (Formula SAE)  
Society of Hispanic Professional Engineers  
Society of Women Engineers  
Women in Computing

### 2nd FLOOR

American Institute of Chemical Engineers  
Association for Computing Machinery  
Association for the Advancement of Artificial Intelligence  
Construction Management Association of America  
Earthquake Engineering Research Institute  
KIUEL Programming Committee  
Lavalab  
Rocket Propulsion Lab  
Sigma Phi Delta (Engr. Fraternity)  
StartEx  
USC Aerial Robotics  
USC AeroDesign Team  
USC American Society of Civil Engineers  
USC Autonomous Underwater Vehicle  
USC Society of Petroleum Engineers

## VITERBI PROGRAMS

*Admission, Undergraduate Programs, Academic Advising, Student Support Programs, the Center for Engineering Diversity and Women in Engineering.*

In addition to students and faculty, we have a number of our professional staff here to answer your questions. Find us on the first floor, near the main staircase.

# MICRO SEMINARS

*Be sure to attend the micro-seminars on some of our co-curricular programming and support services.*



## **#ViterbiInnovation**

Engineering is inherent in entrepreneurship. Join Ashish Soni, Director of the Viterbi Student Institute of Innovation (VSI<sup>2</sup>), as he discusses the Viterbi Startup Garage and other programs focused on taking engineering ideas to the marketplace.

**IN RTH 115 @  
1:30 | 2:30**



## **#ViterbiCareers**

What will you do after college? Join representatives of our Career Services staff, Graduate School Admission staff, and a few recent alumni to discuss your future and how we prepare students for their life after college.

**IN RTH 109 @  
1:00 | 2:00 | 3:00**



## **#ViterbiAbroad**

Meet engineering students who have participated in myriad overseas programs and explore your many study abroad options while checking out some of their favorite photos and hearing some of their most memorable moments.

**IN RTH 105 @  
1:00 | 2:00 | 3:00**



## **#ViterbiResearch**

Engineering is about developing new solutions for the problems that we face as a society. Meet a panel of undergraduate students as they discuss their ongoing research projects and other ways to accomplish hands-on learning.

**IN RTH 211 @  
1:00 | 2:00 | 3:00**

# LAB TOURS & OPEN HOUSES

TOURS DEPART @

**1:00, 1:30, 2:00, 2:30, 3:00, 3:30**

**OPEN HOUSES ARE AVAILABLE  
THROUGHOUT THE DAY**

All tours depart from the north side of Ronald Tutor Hall on Bloom Walk. **Capacity for each tour is limited.** Retrieve passes for each tour ahead of time at the departure points along Bloom Walk. There are no tickets for Open Houses. Feel free to explore those locations directly, however be mindful of the capacity of the lab as the day go`

**A**

## **STRUCTURAL**

### **ENGR. LAB**

Testing of building components and materials. Tours will receive an overview of test equipment and witness a live tensile test. **cap: 15/tour\***

**B**

## **ENGINE LAB**

Automotive engine research aimed at increasing gas mileage and reducing pollutant formation. **cap: 10/tour**

**C**

## **IMAGE**

### **PROCESSING LAB**

Demo of various image processing techniques and graphics data compression methods. **cap: 15/tour**

**D**

## **AERO-**

### **MECHANICAL LAB**

Instrumentation and device control through symbiotic integration of mechanical, optical and electronic components. **cap: 30/tour\***

**E**

## **WATER QUALITY ENGINEERING**

Research is conducted on different aspects of water quality science and engineering to provide safer and cleaner drinking water. **cap: 15/tour\***

**F**

## **CENTER FOR**

### **NEURAL ENGR.**

Development of Biomimetic models of hippocampus to serve as neural prostheses for lost cognitive and memory function. **cap: 30/tour**

**G**

## **GILL COMPOSITE CENTER**

Composite material testing and manufacturing labs. **cap: 15/tour**

**H**

## **COMBUSTION & FUELS**

Combustion properties for fuels used in transportation and power generation including biofuels and conventional fuels. **cap: 15/tour**

**I**

## **SHOCK WAVE LAB**

Study of shock wave focusing in fluids and gases, material behavior under shock loading and high velocity impact **cap: 15/tour**

## **OPEN HOUSES:**

*proceed directly to location*

## **RAPID PROTOTYPING:**

**RTH 319** 3D printing devices and testbeds developed in-house.

## **GAMEPIPE LAB: RTH 321**

Full game production process, building 3D models, motion capture, game animation, game engine development & utilization, game design & prototype development.

## **CiSOFT: RTH 324**

USC-Chevron Center for Interactive Smart Oilfield Technologies.

*(Presentations on the half-hour)*

## **BRAIN-BODY DYNAMICS:**

**RTH 421** Neuromuscular biomechanics of the hand to improve the design and control of prosthetic and robotic systems.

## **IMMUNOBIOENGR. &**

### **BIONANOTECH: RTH 515**

Gene delivery and dendritic cell directed vaccine development and drug delivery methods.

*\* Not accessible via wheelchair today*



viterbi.admission@usc.edu



/ViterbiAdmission



@USCViterbi

Thank you for joining us today. Please feel free to contact us at anytime if you have further questions or need more information.

**[viterbi.usc.edu/admission](http://viterbi.usc.edu/admission)**



viterbi.student@usc.edu



/WeAreVSA



@ViterbiStudent

Get even more info about student life through our blogs, videos, live chats, tweets, and more at Viterbi Voices...

**[viterbivoices.usc.edu](http://viterbivoices.usc.edu)**



**USC** University of  
Southern California