

# UCInspire

International Student Program  
Immersive Research Experience



# UCIrvine

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UNIVERSITY OF CALIFORNIA, IRVINE

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# 加州大学欧文分校 - Who Are We ?



- Located in beautiful Southern California  
欧文(另译尔湾)位于南加州
- Named the safest city of its size in the nation for nine years  
连续十年被评为全美最安全城市
- Pleasant Mediterranean Climate  
地中海式气候
- “Silicon Valley” of Southern California  
高科技企业中心
- World-class cultural, shopping, and entertainment destinations  
世界一流的文化, 购物和娱乐胜地



## Who Are We?

- **Ranked 7<sup>th</sup> in the world and 1<sup>st</sup> in the U.S. among schools under 50 years**

全世界50岁以下的学校排名第七，全美第一

- **Ranked 9<sup>th</sup> among the nation's best public universities, 39<sup>th</sup> in all U.S. universities (U.S. News, 2016), 50<sup>th</sup> in the world (Academic Ranking of World Universities, 2015).**

2015年上海交大世界大学学术排名500强第50名，2016年美国新闻报道全美大学综合排名第39

- Three Nobel prize winners, 2 in chemistry & 1 in physics 三位诺贝尔奖得主
- 82 undergraduate majors 82项本科专业
- 53 master's and 45 Ph.D. degree programs ranked in the top 50 including business, engineering, economics, and healthcare management; M.D., Ed.D, and J.D. also offered  
52项硕士和45项博士专业, 许多专业在美排名前50
- UCI athletic teams have earned 26 national titles in nine sports, & 42 students have competed in the Olympics 42名学生曾参赛于奥运会



## Who Are We?

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President Obama spoke at the 2014 UC Irvine Commencement

# The Henry Samueli School of Engineering 加州大学欧文分校工程学院

## *Innovation in Learning*

A first-rate educational experience, blending fundamentals with hands-on experimental and computational experiences

*Unleashing Innovation    Creating Opportunities    Inspiring Ingenuity*

激活创新, 创造机遇, 启发灵感



## The Henry Samueli School of Engineering 加州大学欧文分校工程学院

*Unleashing Innovation, Creating Opportunities, Inspiring Ingenuity*

### UCI Engineering At a Glance

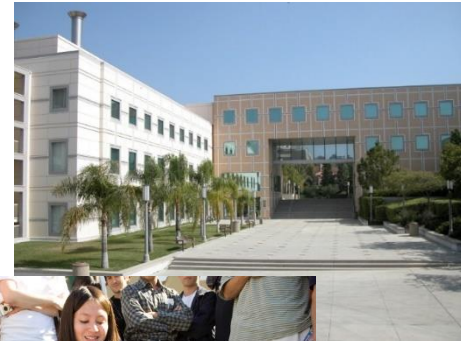
- 21<sup>st</sup> Ranked Public Engineering Program (公立工程专业全美排名21)
- Ranked 37<sup>th</sup> overall by USNWR – Grad (工程研究生院全美排名37)
- \$78M in Research Expenditures (7千8百万研究基金)
- Average incoming students (新生平均成绩)

**SAT scores — 664 (88<sup>th</sup> Percentile)**

**GRE scores – 162/170 (84<sup>th</sup> Percentile)**

### Enrollment

- 3121 UG (本科生) , 902 Grad (研究生)
- Five Departments (5个科系)
- 12 Engineering programs (11 accredited)  
12个工程学位
- 113 Faculty (113位终身制教授)

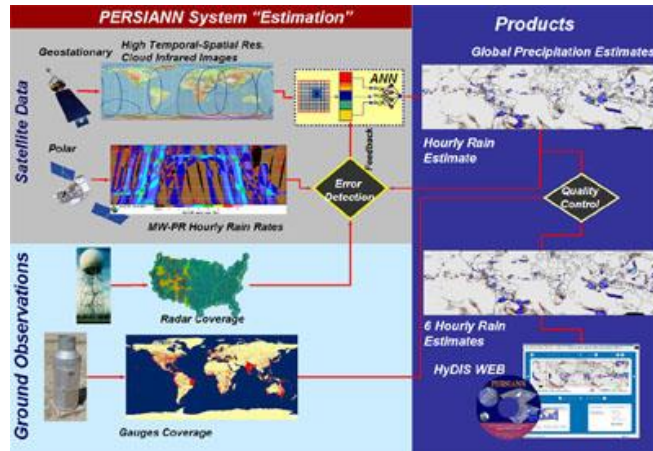
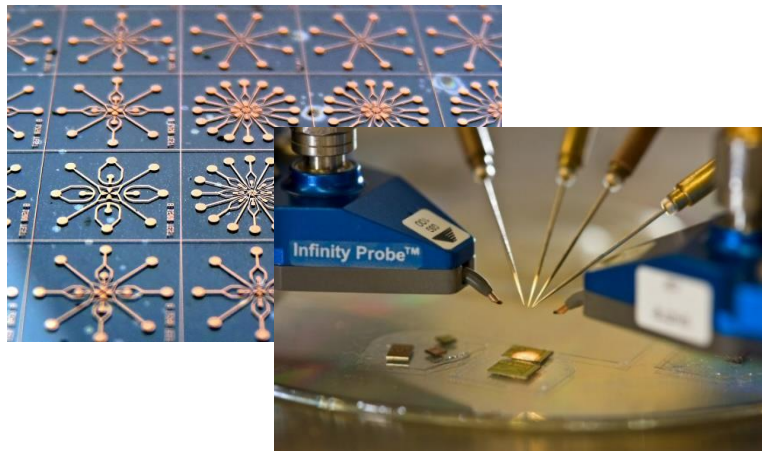
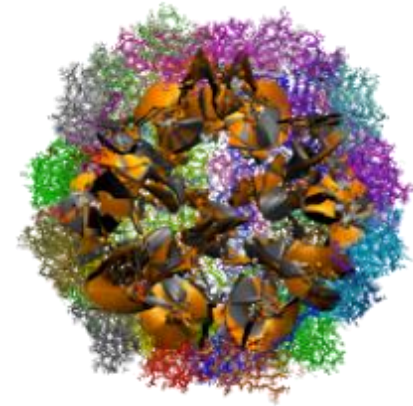
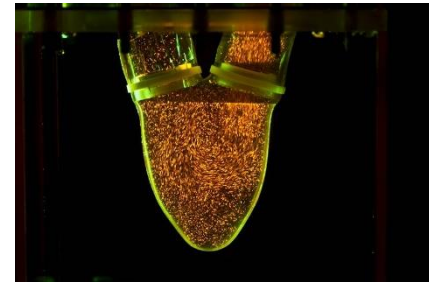


The Henry Samueli School of Engineering  
加州大学欧文分校工程学院

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# Five Departments

- Mechanical and Aerospace Engineering
- Civil and Environmental Engineering
- Electrical Engineering and Computer Science
- Chemical Engineering and Materials Science
- Biomedical Engineering





## Faculty Quality (教员质量)

### ***Courses Taught by Top Researchers in the U.S.:***

- *12 members of the National Academies.*
- *More than a third of the School's 113 faculty members have been elected Fellows in professional societies*
- *Over the last decade, 27 professors have received National Science Foundation Faculty Early Career Development (CAREER) Awards.*

## Meet Professor Bob Liebeck



Boeing Senior Fellow  
“Father” of the Blended Wing Body Airplane  
Member of the National Academy of Engineering

Teaches courses in Aerodynamics and  
Aircraft Design

## Meet Professor Michelle Khine



From Oprah Magazine

Inventor of novel microfluidic technologies for biomedical applications  
Rated as one of the top Scientists by Marie Claire, Forbes, and MIT Technology Rev

Teaches courses in Biomedical Engineering

# Emphasis on Interdisciplinary Learning (我们强调交叉学科学习)

Advances in technology are occurring at the interfaces of the various disciplines of engineering and science



## Inventors

Prof. Pai Chou, Electrical Engineering

Prof. Dan Cooper, Pediatrics

Prof. Donald Patterson, Computer Science

Ms. Dana Gravem, School of Medicine

This device by Infant Movement Diagnostics LLC uses small wireless accelerometers to detect abnormal movements in preterm infants. It is hoped that this device will help doctors to recognize problems in neuromotor development such as cerebral palsy.

## Major Research Centers (研究中心)

- California Institute for Telecommunications and Information Technology (Calit2)
- Integrated Nanosystems Research Facility (INRF)
- RapidTech – Rapid Design and Manufacturing
- **Micro/Nano Fluidics Fundamentals Focus Center (MF3)**
- Center of Excellence for Electron Microscopy
- Center for Pervasive Communications and Computing
- Center for Embedded Computer Systems
- Edwards Lifesciences Center for Advanced Cardiovascular Technology
- Beckman Laser Institute (BLI)
- Center for Hydrometeorology and Remote Sensing
- **Advanced Power and Energy Program (APEP)**
  - The National Fuel Cell Research Center (NFCRC)
  - UCI Combustion Laboratory
- Institute of Transportation Studies
- Center for Advanced Monitoring and Damage Inspection



## Excellent Connections with Industry (与工业的完美结合)

Henry Samueli, CTO Broadcom



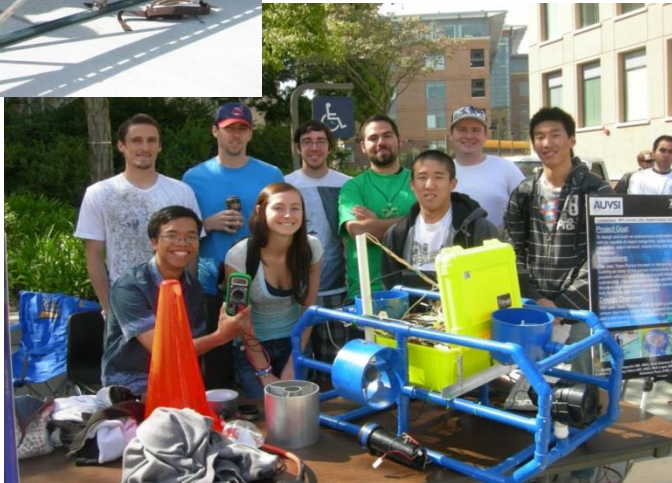
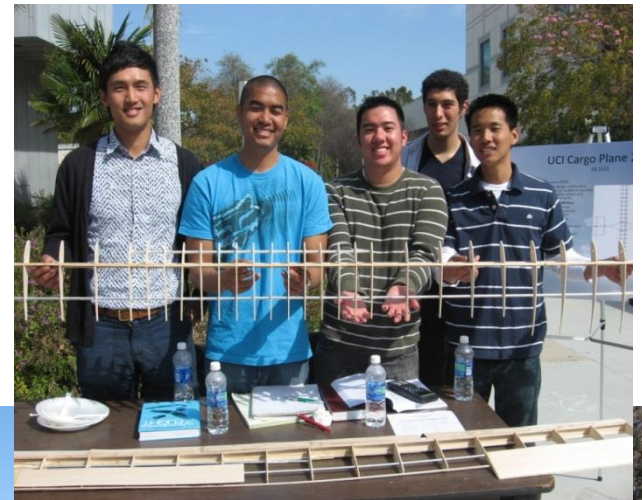
The Engineering Leadership Council includes CEOs and VPs from Broadcom, Emulex, Intel, Boeing, Northrop, Edwards, Bausch & Lomb ...

# Student Design Projects! (学生自主设计项目)

Portable Steel Walking Bridge



Cargo  
Airplane



Autonomous Underwater Vehicle

Drivable Scale Model Race Car

# Why Summer Research in the U.S.? (为什么选择在美国做暑期研究?)



## *Key Benefits:*

- Experience cutting-edge research
- Differentiate your graduate application
- Obtain a “Letter of Recommendation” from top research faculty
- Enhance your English proficiency
- Increase your collaborative skills
- Immerse yourself in the American culture



# Why Summer Research @ UCI? (为什么选择UCI工程学院?)



## *Key Benefits:*

- Location - Safest City in the U.S.
- Surrounded by high tech companies
- Jobs and internships
- Explore Southern CA
- Extracurricular activities
- State of the art research facility
- Diverse student population
- An Asian-welcoming community
- Visiting faculty from top universities in the world

# Why Summer Research @ UCI? (为什么选择UCI工程学院?)



## *Key Benefits:*

- 3 – 6 UCI Course Credits
- Completion of a research project
- Improve your research skills
- First-hand information on UCI graduate program
- Publication Opportunity
- Experience interdisciplinary interaction
- Professional Development
- Technical Communication Skills

## Summer Research @ UCInspire

- Program Duration
  - June 20, 2016 – August 26, 2016 (10 weeks)
- Program Requirement
  - Engineering or science major
  - At least finished two years of study
  - Top 20% by ranking
  - Excellent communication skills
  - **Proof of English proficiency: 685 TOEIC, 6.5 IELTS, TOEFL, 213 Computer-based Test or 79iBT or 550 Paper-based Test**
  - Plan to apply for graduate programs in the U.S.
  - Motivated, independent and responsible Individuals
  - Prior research experience is a plus

## Summer Research @ UCInspire

- Approximate Program Cost

ITEM	ESTIMATED COST
Application and F1 Visa Fee	\$750
Mandatory Campus Fee	\$250
Program Fee + Tuition	\$3620
Research Expenses	\$2000
Health Insurance (10 weeks)	\$430
Housing	\$1950
<b>Total</b>	<b>\$9000</b>

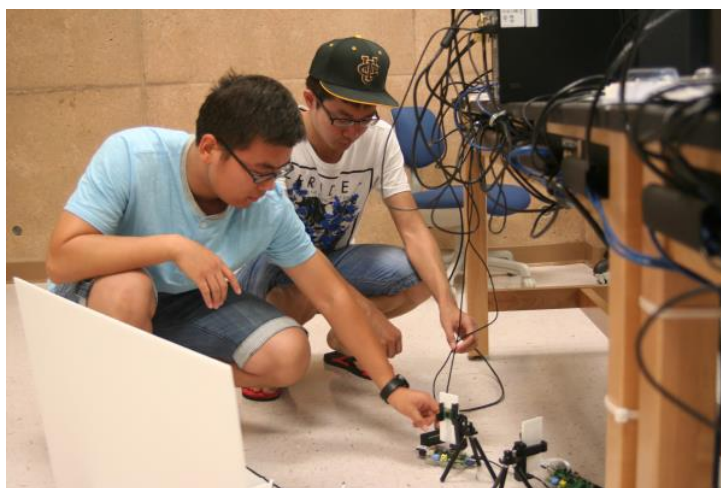
## Summer Research @ UCInspire

- Additional Cost
  - Airfare (About \$1000)
  - Meals (meal plans are available on campus)
  - Personal expenses (beach is free, but shopping is not!)
  - Activities (e.g., Universal studio, Disneyland, etc.)

## Summer Research @ UCInspire

- Important Dates
  - Application Extended Deadline: January 15, 2016
  - Online Interview: February 1-5, 2016
  - Admission: February 19, 2016
  - Project Matching: March 11, 2016
  - Applying for Visa: March 15, 2016

## Students @ UCInspire





UCInspire (项目网页, 英文): <http://sites.uci.edu/ucinspire/>

UCInspire (项目网页, 中文): <http://sites.uci.edu/ucinspirech/>

Weibo (学院微博): <http://weibo.com/UCIrvineEngineering>

School Website (学院网址): <http://www.eng.uci.edu>