



Marlan and Rosemary Bourns  
College of Engineering

Engineer Your Future with the  
**Graduate Preparation  
Program in Engineering (GPP-E)**  
**3 + 1 + X Program**



The University of California, Riverside is one of 10 world-class public research universities within the prestigious University of California system.

## A Leader In...

### Innovation

- A member of the 11-campus University Innovation Alliance

### Diversity

- Top Performing Institution for Black Students (*The Education Trust*)
- Designated Hispanic Serving Institution (HSI)

### Research & Service

- Ranked No. 13 among public national universities (*Washington Monthly*)

### Affordability

- Ranked No. 15 among public colleges for best college for your money (*Money*)





## City of Riverside offers more than sunshine.

Known as the “City of Arts and Innovation”, Riverside is a bustling hub of activity and is the home of one of the fastest-growing metropolitan areas in the United States. With its beautiful, historic downtown – anchored by the world famous Mission Inn Hotel – it is a multi-cultural hub of arts, engineering and culture.


At UC Riverside, students are a short drive from:

 Sports arenas featuring championship teams

 World-famous amusement parks

 Miles of sandy beaches and coastline

 Mountain resorts at Big Bear and Lake Arrowhead

 Premier shopping malls and luxury outlet stores

 Recreation areas in Palm Springs

UCR

# Innovation Is What We Do: The Marlan and Rosemary Bourns College of Engineering

## About The College

**5** departments + **2** Interdisciplinary degree-granting programs

**125** faculty members

**9** Research Centers

**50+** international collaborations



Curricula with technical depth and diversity



World-class research faculty with a commitment to teaching



Small class sizes, creating a personalized learning environment



Focus on leadership skills



Preparation for the next career step



International-friendly community

## Top ranked engineering college by:





## Advanced Facilities

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**300,000 SQUARE FEET** of  
laboratories and classrooms

**BATTERY-POWERED** Buildings

**EPA ENERGY**  
Star-Certified Building

**WORLD'S LARGEST INDOOR**  
Atmospheric Chamber

**\$10 MILLION**  
Nanofabrication Cleanroom

**MULTIDISCIPLINARY**  
Research Building

**LEED CERTIFICATION**  
of Bourns Hall B-Wing

**PHOTOVOLTAIC ROOF**  
panel installation



# Introducing the Graduate Preparation Program in Engineering

The Graduate Preparation Program in Engineering (GPP-E) is a uniquely tailored program aimed at providing Chinese students an immersive experience at a top ranked U.S. research university. The program allows students who have completed their third year of study to complete their fourth and final year at UC Riverside's Marlan and Rosemary Bourns College of Engineering (3+1) with an available extension upon admittance to obtain a master's or doctorate degree.

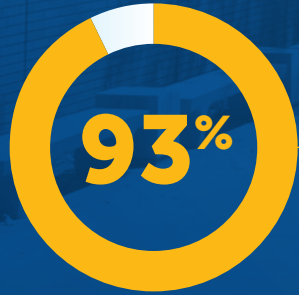
## Program Highlights

- Reduced tuition compared to regularly enrolled international students
- Support from a faculty advisor and staff advisor
- Guaranteed seats in all engineering classes
- Guaranteed seats in Senior Design Project
- Available in all nine majors
- Earn an Advanced Certificate in Engineering
- Eligible for OPT (work after graduation for up to 29 months)
- Conduct research with top engineering faculty, potential recommendation letter for graduate school
- Experience U.S. culture and education

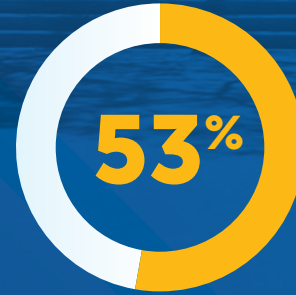




# GPP-E Success



Of GPP-E students entered top 100 graduate schools



Who entered graduate school stayed at UCR to study (M.S., M.S. plus research, or Ph.D.)

## OTHER GRADUATE STUDENTS WENT ON TO STUDY AT

University of California, Los Angeles  
 Boston University  
 Columbia University  
 The University of Hong Kong  
 Royal Institute of Technology

Imperial College London  
 University of Florida  
 National University of Singapore  
 Northwestern University  
 New York University

The Ohio State University  
 University of California, San Diego  
 Carnegie Mellon University  
 University of Southern California  
 University of California, Irvine

## Our Partners



**24** CHINESE PARTNER UNIVERSITIES





# GPP-E Program (3+1+X)

Prepares students for graduate school and helps identify top graduate student prospects

**3**

**+**

**1**

**+**

**X**

**3 years** of study at their home university

GPP-E Program

**6 Weeks** intensive engineering English preparation course

**One-Year** senior class (36 units):

- Senior Design
- Engineering Coursework
- Undergraduate Research
- In-Lab Opportunities

**OPTION 1:** GPP-E + 1 + 1  
Master's Degree with Comprehensive Examinations

**OPTION 2:** GPP-E + 1 + 2  
Master's Degree with Thesis Defense

**OPTION 3:** GPP-E + 1 + 5  
Ph.D. degree





## Choosing a Major

- Bioengineering
- Chemical Engineering
- Environmental Engineering
- Computer Science Engineering
- Computer Science with Business Applications
- Computer Engineering
- Electrical Engineering
- Materials Science and Engineering
- Mechanical Engineering



# Hands-On Education: Senior Design Project

During the final year of study, students work together in groups of four or five to complete a yearlong, faculty mentored senior design project, mimicking a real-world research setting. Students select the topic of their choice to conduct research and present their findings to a faculty panel, with highly ranked project teams going on to compete against senior design projects across the State of California.

## Teamwork

- Select a topic to research
- Assign work based on student's strength and help each other when needed
- Weekly team meetings
- Collaborated teamwork to complete the design

## Design Requirements

- Faculty mentored
- Graded projects
- Final oral and poster presentation
- Written report

## Award-Winning Senior Design Projects



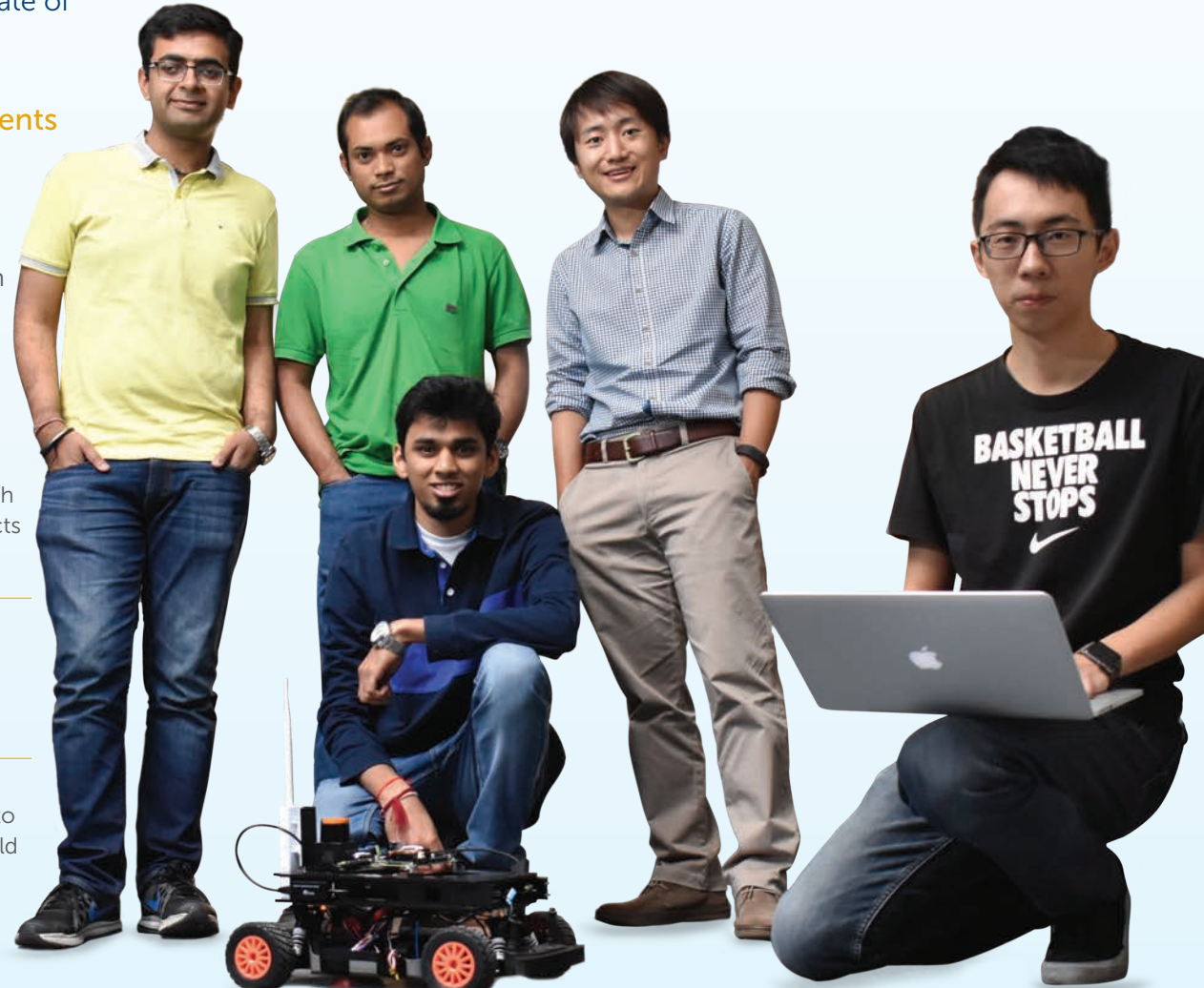
Team Mantis: Aims to reduce automobile accidents with a sensor-clad steering wheel and dashboard that detects intoxicated, drowsy, distracted, and aggressive driving



Team NOx-Out: Significantly reduces small engine emissions with the installation of a cylindrical stainless steel unit that attaches to the lawnmower's muffer



Team Diaper Detective: Transforms ordinary diapers into health monitoring systems that alert parents if their child is suffering from a bacterial infection or dehydration





## Transferring Skills to the Research Lab

GPP-E students have extensive opportunities to become embedded in faculty research efforts. By working side-by-side with our experienced faculty members and their graduate teams, GPP-E students get a sneak peek into the life of a graduate student at an American university. Top performing students who show a dedicated effort may also have an opportunity to receive a recommendation letter from their faculty advisors for use in their graduate application packets.

- Faculty mentored in-lab research experience
- Promotes an innovation-oriented culture
- Empowers students in hands-on learning
- Collaborates with others and work effectively as part of a team
- Provides effective career preparation & promotes interests in graduate education
- Applies concepts learned in coursework to “real life” situations
- Develops critical thinking, creativity, problem solving, self-confidence, and intellectual independence
- Publish on peer reviewed journal as undergraduate students



# Guaranteed Enrollment at a Reduced Tuition Rate

Admitted students will be responsible for providing financial support that covers expenses and miscellaneous fees including such costs as the application fee, insurance, textbooks, and living expenditures. Through the tuition payment process, GPP-E students are guaranteed enrollment in their courses and usage of study and research resources that will not be affected by the general engineering student population.

| <b>International Student – One Year of Undergraduate Study</b><br><b>\$39,516</b> | <b>GPP-E Student (3+1)</b><br><b>\$27,500</b>  | <b>GPP-E + 1 + 1 Master’s Degree with Comprehensive Examinations</b><br><b>\$47,440</b>   | <b>GPP-E + 1 + 2 Master’s Degree with Thesis Defense</b><br><b>\$74,044</b>   | <b>GPP-E + 1 + 5 (Ph.D.)</b><br><b>\$27,500 with full fellowship</b>  |
|---|--|---|---|---|
| Three Quarters<br>\$39,516  | GPP-E + Summer GRE English Prep Program<br>\$27,500<br><br> | GPP-E + Summer GRE English Prep Program<br>\$27,500<br><br>Masters<br>\$26,604*<br><br>8 Units FREE = SAVINGS \$6,664<br><br> | GPP-E + Summer GRE English Prep Program<br>\$27,500<br><br>Masters + Year of Research<br>\$53,208*<br><br>8 Units FREE = SAVINGS \$6,664<br><br> | GPP-E + Summer GRE English Prep Program<br>\$27,500<br><br>Ph.D. Students are fully funded through fellowships and other means<br><br> |

\*Refer to the registrar’s website at [registrar.ucr.edu](http://registrar.ucr.edu) for the latest tuition and fees



# The Place to Be!

While GPP-E students spend much of their time involved in their studies, they also have the opportunity to experience life at an American university. From food trucks on campus to academic student clubs and basketball games to the student recreation center, GPP-E students are immersed into UCR life. Twenty four of the campuses' more than 400 professional student organizations are in engineering, offering students a way to connect and network with others who share industry or personal interests.

- Farmer's markets
- ARTSBlock
- Eaton Science Fiction Center
- Botanic Gardens
- Movie screenings
- Concerts
- Classroom kitchen
- Outdoor pool
- And more!



UCR ranked among the Top 100 safest colleges in the nation (Alarms.org, 2017)

- **UC Police Department.** Housed on campus, the police station is on duty 24 hours a day
- **Campus Safety Escort Service.** With a simple phone call, students will be paired with an escort representative to walk them to their destination
- **Point-2-Point Shuttle Service.** The shuttle provides safe, secure transportation for students from campus to their off-campus homes
- **Campus Emergency Notification System.** This system provides students and staff with rapid, automated notifications direct to a mobile device



## Check Out International Village!

A globally minded, all-inclusive community, International Village is a great place to live that offers both individual space and shared living rooms with visiting students from around the world. The setting is a unique opportunity to participate in specialized workshops and activities geared toward working and studying abroad!



# GPP-E Student Experiences



**Chang Liu:** Mechanical Engineering at Harbin Institute of Technology  
**Currently:** Northwestern University, M.S.  
Northeastern University, Ph.D.

“Life at UCR brought me quite new and different experiences. The one year’s study in advance to master degree prepares us for American education system and also the culture of the new country. You will find out the education system here needs the student to be very proactive. No one will push you to study or progress. It all depends on you. One advice from me would be getting touch with the professors, they will be great resource for your master application references.”



**Ququ Cao:** Electrical Engineering at Huazhong University of Science and Technology  
**Currently:** University of California, Los Angeles, Ph.D.

“Located in California, UCR has a very nice weather and of course, a great location advantage for your job opportunity. The school has very advanced researching equipment and facilities. The professors have made great achievements in their areas and all are very easy to communicate with. All these lay a solid foundation for your master degree’s application.”



**Hongxu Dong:** Chemical Engineering at Tianjing University  
**Currently:** University of Virginia, Ph.D.

“I had experienced a new learning method since I came here. Team work is highly encouraged in class. Even though some American students do not obtain as much as knowledge reserve as Chinese student, they master a variety of other soft skills that we lack. They impress me by their overall qualities. The students and professors helped me a lot during the time I was applying for master degree. A couple days ago, I received the offer from University of Virginia,

and I owe this opportunity to their help. Even though your English is not as good as you want, you shouldn’t feel embarrassed to talk. Take every chance you have, the language difficulty will not be a problem anymore one day. Study hard, and stay aggressive, you will harvest your dream from here.”



**Fuyue Lei:** Materials Science & Engineering at Guangdong University of Technology  
**Currently:** University of Southern California, M.S.

“The lectures here are more organized and more systemized. The subjects of the researches are more advanced. You could also go to the labs and observe what the PhD students are doing and join them. The biggest advantage here is that it has so many resources. If you know what you want, many resources are available to facilitate your success. You will not feel lonely since you will meet many classmates from all different countries. It is an amazing life experience to make friends from all different countries. Plus, the campus is beautiful all the time and it has very nice weather.”

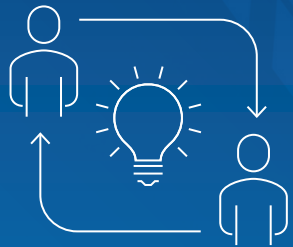


**Tianxiang Cheng:** Electrical Engineering at Donghua University  
**Currently:** University of Pennsylvania, M.S.  
Amazon, Software Engineer

“The course load at American universities is heavier than China’s. More time and effort is needed if you want to succeed in your studying. One year’s studying in advance means a bigger chance to get admitted by a graduate program. You will know if you can adapt to the oversea life and study before you decide to apply for American graduate program. I am proud to say I gained a lot for my academic life and my personal development. At the end of Last December, I received the admission from University of Pennsylvania. During the past year, I have become a more independent and mature person.”



# Let's Work Together Opportunities for Collaboration



- Exchange of faculty members and research fellows
- Exchange of students
  - University Credit Program (UCP)
  - Graduate Preparation Program (GPP)
  - International visiting scholars
  - Graduate visiting students
  - Summer experience in engineering
- Exchange of academic materials
- Conduct joint research projects and organization of symposia
- Other activities contributing to the development of academic and educational exchange between the two universities





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