BIOENGINEERING: University of Colorado at Boulder, USA

Program Directors
Professor R. “Dan” Dandapani, UCCS
Professor Robert Davis, CU-Boulder
Professor Edwin Lewis, UC Davis
Professor Roger Rangel, UC Irvine
Professor Greg Washington, UC Irvine
What to do after graduation?

• Get a job

• Learn more, become an expert and leader in your field
Why Graduate School in the USA?

- Opportunity to travel
- Learn more, better yourself, and benefit society
- Live abroad
- Expand your career options
- Achieve competitive positions and salaries
Why the Balsells Fellowship Program?

- Tailored for students from Catalonia
- Financial support available:

Pete Balsells
Generalitat de Catalunya

University of Colorado Colorado Springs
University of Colorado Boulder
• Born in Barcelona in 1928
• Moved to United States at age 18
• Graduated from CU-Boulder in 1952
  – B.S. degree in Mechanical Engineering
• Started Bal Seal Engineering Company in 1958 with his wife, Joan
  – Located near Irvine, California, and Colorado Springs, Colorado, the company today employs over 500 people
• Started the Balsells Fellowship Program at The University of California, Irvine in 1996
• Started the Balsells Graduate Fellowship Program at University of Colorado Boulder in 2010; at Univ. of Colorado in Colorado Springs (UCCS) in 2013; and at UC Davis in 2015
• Received the Francesc Macia Medal in 2003
• Awarded the Creu de Sant Jordi in 2013
Graduate Programs

Master’s: 1.5 – 2 years with thesis

Ph.D.: 4-5 years total


Industry → Government → Academia
From Catalonia to California and Colorado

Map of the United States with marked locations:
- Davis, CA
- Boulder, CO
- Colorado Springs, CO
- Irvine, CA
Irvine - Orange County - Southern California

- Pop: 225,000 (Irvine) 3 Million (Orange Co.)
- 60 km south of Los Angeles
- A hub of high tech companies
- Surrounded by beach, mountains, arts, and entertainment
University of California, Irvine Snapshot

- [www.uci.edu](http://www.uci.edu)
- 30,700 students
- 14 schools and programs
- 2,900 teaching faculty members
- 9th among all U.S. public universities (UNWR)
- 3 Nobel prizes
Henry Samueli School of Engineering

Five Departments:  www.eng.uci.edu

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

3,400 Undergraduates
1,025 Graduate students
150 Faculty Members
Boulder, Colorado

- 95,000 people
- 1,655 m elevation
- 40 km from Denver
- 300 days of sunshine per year
- Recreation
- Culture
University of Colorado Boulder

- Founded 1876
- 32,000 students
- 5 Nobel Prize Winners
- 8 Schools & Colleges

- Balsells Graduate Fellowship Program started 2010
- Special strengths in aerospace, bioengineering chemical, civil, computer, electrical/telecom, materials and mechanical engineering
College of Engineering and Applied Science

8 Departments/Programs
Aerospace Engineering Sciences
Chemical and Biological Engineering
Civil, Environmental, and Architectural Engineering
Computer Science
Electrical, Computer, and Energy Engineering
Interdisciplinary Telecommunications
Materials Science and Engineering
Mechanical Engineering

4,250 undergraduates
1,800 graduate students
280 faculty members

engineering.colorado.edu

Top-ranked engineering school in the entire Rocky Mountain region of the United States
Colorado Springs, Colorado

- 416,427 people
- 1,839 m elevation
- 110 km from Denver
- Home to the U.S. Olympic Training Center
- A city for people who love the outdoors – great outdoor recreation year round
- Pikes Peak
- Garden of the Gods
University of Colorado / Colorado Springs

- Founded 1965
- 11,000 students
- 13th among Western regional public universities
- 6 Schools & Colleges

- Balsells Graduate Fellowship Program
- In Computer Science, Electrical Engineering, and Mechanical Engineering, cutting-edge applied research in the College of Engineering and Applied Science
3 Departments

Electrical & Computer Engineering
Mechanical & Aerospace Engineering
Computer Science

Local connections to industry, including Bal Seal Engineering R&D Facility.

Personal attention by faculty on research projects

www.uccs.edu/eas

Undergraduate programs ranked #8 nationally and graduate programs recognized with top tier Carnegie research institutions
Davis – Yolo County – Northern California

- Pop: 66,000 (Davis) – 200,000 (Yolo Co.)
- 18 km from Sacramento; 110 km from San Francisco
- In the center of agricultural production
- Close to mountains and coast
University of California, Davis Snapshot

- www.ucdavis.edu
- 35,400 students
- 104 undergraduate majors
- 96 graduate programs
- 9,500+ degrees awarded annually
- #1 Ranking University in the World for Research and Teaching in Agriculture
UC Davis College of Agricultural and Environmental Sciences

- 15 academic departments
- Centers and Institutes – many
- People
  - 360+ faculty / 800 staff
  - 6,635 undergraduate students
  - 1,000+ graduate students
- 5,000 acres on campus
  - 3,700 acres for ag. research and teaching
  - Classrooms / Laboratories
  - Greenhouses / Growth chambers
Balsells Graduate Fellowship

The Fellowship includes:

- Monthly stipend: $1,600-2,000 per month
- Tuition, Fees & Insurance: $26,000-35,000 per year
- Total value: $45,000-60,000 per year
- Fellowship available for 2 years
- Research & teaching assistantships available after 2 years for students continuing to the PhD
- 15 to 17 New fellowships each year

U.C. Irvine also offers Postdoctoral Fellowships in Engineering

- Yearly stipend: $45,000
- Total value: $69,000
- 2 Fellowships each year
Who can apply?

Spanish citizens who speak English, Catalan and Spanish, and who are either:

• Graduates from Catalan universities majoring in engineering or related fields.
• Graduates from other European universities who are residents of Catalonia, Spain.
Balsells Fellowships 1996-2015

121 Fellows at UC Irvine
- 109 MS and PhD fellows
- 12 Post-doctoral fellows

31 Fellows at CU-Boulder
- 31 MS and PhD fellows

8 Fellows at UCCS
- 7 MS and 1 MS/PhD

UPC
- ETSEIB
- ETSETB
- ETSECCPB
- EUETIB
- ESEIAAT
- FIB
- FME

UB
- Phys and Chem

URL
- IQS
- La Salle

UdG
- EPS

UAB
- Chem Eng
- Comp Sci
- Telecom

URV
- ETSEQ

UdL

UPF
### Timeline for Applications

<table>
<thead>
<tr>
<th>Event</th>
<th>UCI</th>
<th>CUB/UCCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Take GRE and TOEFL or IELTS exams</td>
<td>Dec/Jan</td>
<td>Nov/Dec</td>
</tr>
<tr>
<td>Complete application to the university</td>
<td>Dec/Jan</td>
<td>Dec</td>
</tr>
<tr>
<td>Admissions decision by the university</td>
<td>March</td>
<td>Feb/March</td>
</tr>
<tr>
<td>Admitted students apply for Balsells Fellowship</td>
<td>March/April</td>
<td>March</td>
</tr>
<tr>
<td>Decisions on Balsells Fellowships announced</td>
<td>May</td>
<td>April/May</td>
</tr>
<tr>
<td>Fall term starts</td>
<td>Sept</td>
<td>Aug</td>
</tr>
</tbody>
</table>

**Information on GRE, TOEFL & IELTS exams:**
- [www.gre.org](http://www.gre.org)
- [www.toefl.org](http://www.toefl.org)
- [www.ielts.org](http://www.ielts.org)

**Information on applying to UC Irvine:**

**Information on applying to CU-Boulder:**
- [http://www.colorado.edu/admissions/graduate/international](http://www.colorado.edu/admissions/graduate/international)

**Information on applying to UCCS**
- [http://www.uccs.edu/eas/academics/balsells.html](http://www.uccs.edu/eas/academics/balsells.html)
For additional information please contact:

University of California, Irvine
balsells@eng.uci.edu
balsells.eng.uci.edu

University of Colorado Boulder
sharon.powers@colorado.edu
colorado.edu/engineering/balsells

University of Colorado Colorado Springs
balsells@uccs.edu
www.uccs.edu/eas/academics/balsells.html

University of California, Davis
eelewis@ucdavis.edu
Balsells International Mobility Program

- Undergraduates or master’s students from Catalonia
- Undertake final project or master’s thesis for one semester (3-6 months) at UC Irvine, CU-Boulder or UCCS
- UC Irvine: balsells.eng.uci.edu
- CU-Boulder: colorado.edu/engineering/balsells
- UCCS: www.uccs.edu/eas/academics/balsellsmobility.html
- Transportation and living expenses provided
How to Apply for the Mobility Program

Students interested in the Balsells Mobility Program should:

• Be interested in future Master’s or PhD study in the USA and intend to apply for the Balsells Graduate Program
• Have a strong academic record and at least intermediate English proficiency
• Provide letter of interest, curriculum vita, and academic transcript (all in English) to:
  – California (UCI): Prof. Roger Rangel at balsells@eng.uci.edu
  – CU-Boulder: Ms. Karey Sabol at karey.sabol@colorado.edu
  – UCCS Colorado Springs: Mr. Christopher Nelson at balsells@uccs.edu

Questions?