Faculty Representatives

Professor Robert Davis, CU Boulder
Assistant Dean Christopher Nelson, UCCS
Professor Anita Oberbauer, UC Davis
Professor Roger Rangel, 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 California
UC Davis
UC Irvine
UCB Boulder

University of Colorado
UCSS
Colorado Springs

University of Colorado
Boulder
Peter J. Balsells

- 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 California 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 UCI in 1996
- Started the Balsells Graduate Fellowship Program at CU Boulder in 2010; at UCCS in 2013; and at UCD in 2015
- Received the Francesc Macia Medal in 2003
- Awarded the Creu de Sant Jordi in 2013
- Honorary doctorates from CU Boulder (2014) and UdG (2016)
The Balsells Effect
Balsells Mobility Program
Short-term visits of 4-6 months to the U.S. to carry out final project for Bachelor’s or Master’s degree and to explore possibility of returning to the U.S. for a Master’s and/or PhD.

Balsells Graduate Fellowship
Long-term visits of 1.5 - 5 years to the U.S. to obtain Master’s degree (1.5 - 2 years) and/or PhD degree (4 – 5 years) from a U.S. university.

Balsells Postdoctoral Fellowship (UC Irvine)
One-year visit for PhD holders to conduct research at UC Irvine under the guidance of a faculty member.
**Mobility:** Short-term visit of 4-6 months to U.S. to do final project for Catalan undergraduate or Master’s degree, and to explore possibility of returning to the U.S. for M.S. and/or Ph.D.

**Timeline:**
- Spring
- Fall
- Spring
- Fall
- Spring
- Fall
- Spring
- Fall

- **Apply for Mobility (Fall or Spring)**
- **Undertake Mobility (Fall or Spring)**
- **Apply for Grad Program (Winter)**
- **Start Grad Program**
- **Finish MS, Start PhD?**

**Graduate Fellowship:** Long-term visit of 2-5 years to U.S. to obtain M.S. degree (1.5-2 years) and/or PhD degree (4-5 years) from U.S. university
Balsells Fellowships 1996-2017

UC Irvine
125 MS and PhD fellows
13 post-doctoral fellows
61 mobility fellows

CU Boulder
42 MS and PhD fellows
45 mobility fellows

UCCS
20 MS and PhD fellows
24 mobility fellows

UC Davis
1 MS fellow
1 mobility fellow (2018)

Catalan Universities:
UAB, UB, UdG, UdL, UPC, UPF, URL, URV
From Catalonia to California and Colorado
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
- 31,500 students
- 14 schools and programs
- 3,000 teaching faculty members
- 9th among all U.S. public universities (USNews&WR 2018)
- 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

3,300 Undergraduates
1,000 Graduate students
150 Faculty Members
Boulder, Colorado

- 105,000 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

4,650 undergraduates
1,900 graduate students
300 faculty members

engineering.colorado.edu

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

- 460,000 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
- 12,000 students
- 9th among Western regional public universities (2017)
- 6 Schools & Colleges

- Balsells Graduate Fellowship Program
- 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
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](http://www.ucdavis.edu)
- 37,400 students
- 104 undergraduate majors
- 96 graduate programs
- 10,200+ degrees awarded annually
- Top 10 US public university
- #2 Ranking University in the World for Research and Teaching in Agricultural Sciences
UC Davis College of Agricultural and Environmental Sciences

- 15 academic departments
- Centers and Institutes – many
- People
  - 381+ faculty / 800 staff
  - >7,300 undergraduate students
  - 1,100+ graduate students
- 5,000 acres on campus
  - 3,700 acres for ag. research and teaching
  - Classrooms / Laboratories
  - Greenhouses / Growth chambers
Balsells Mobility Program

- Undergraduates or master’s students from Catalonia
- Undertake final project or master’s thesis typically for one term (4-6 months) at UC Irvine, CU Boulder, UCCS, or UC Davis
- UC Irvine: balsells.eng.uci.edu
- CU Boulder: www.colorado.edu/engineering-international/balsells
- UCCS: https://www.uccs.edu/eas/academics/balsells_mobility.html
- UC Davis: Associate Dean Susan Ebler at seebler@ucdavis.edu
- Transportation and partial living expenses provided (approximately $1,000 per month)
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:
  – **UC Irvine**: Balsells Fellowship Program at balsells@uci.edu
  – **CU Boulder**: Mr. Andrew Wingfield at andrew.wingfield@colorado.edu
  – **UCCS Colorado Springs**: Mr. Christopher Nelson at balsells@uccs.edu
  – **UC Davis**: Associate Dean Susan Ebler at seebler@ucdavis.edu
Graduate Programs

Master’s: 1.5 – 2 years with thesis
- Courses
- Research
- Thesis
  - Industry
  - Government

Ph.D.: 4-5 years total
- Courses
- Preliminary Exam.
- Qualifying Exam.
- Research
- Thesis
  - Industry
  - Government
  - Academia
Balsells Graduate Fellowship

The Fellowship includes:

• Monthly stipend: $1,700-2,125 per month
• Tuition, Fees & Insurance: $27,000-36,000 per year
• Travel payment: $1,500 per year
• Total value: $45,000-60,000 per year
• Fellowship available for up to 2 years
• Research & teaching assistantships available after 2 years for students continuing to the PhD
• 15 to 20 new fellowships each year

Postdoctoral Fellowship in Engineering (UC Irvine)

• Yearly stipend: $48,000
• Total value: $69,000
• 2 Fellowships each year
Balsells Eligibility

Who can apply?

Spanish citizens who are permanent residents of Catalonia; speak English, Catalan and Spanish; and are graduates from Catalan or other European universities majoring in engineering or related fields.
### Timeline for Graduate (MS/PhD) application

**For students currently in 4th year**

<table>
<thead>
<tr>
<th>What</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>This presentation</td>
<td>Sep 2017</td>
</tr>
<tr>
<td>Take GRE and TOEFL or IELTS exams</td>
<td>Nov/Dec 2017</td>
</tr>
<tr>
<td>Complete graduate application</td>
<td>Dec 2017 / Jan 2018</td>
</tr>
<tr>
<td>Admissions decision by the university</td>
<td>Feb/Mar 2018</td>
</tr>
<tr>
<td><strong>Admitted students apply for Balsells Fellowship</strong></td>
<td>Mar 2018</td>
</tr>
<tr>
<td>Decisions on Balsells Fellowships announced</td>
<td>Apr 2018</td>
</tr>
<tr>
<td>Fall term of graduate school starts</td>
<td>Aug/Sep 2018</td>
</tr>
</tbody>
</table>
## Timeline for Mobility and Graduate application

For students currently in 3rd year

<table>
<thead>
<tr>
<th>What</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>This presentation</td>
<td>Sep 2017</td>
</tr>
<tr>
<td>Apply for Mobility</td>
<td>Feb 2018</td>
</tr>
<tr>
<td>Start Mobility</td>
<td>Fall 2018 or Spring 2019</td>
</tr>
<tr>
<td>Take GRE and TOEFL or IELTS exams</td>
<td>Dec 2018</td>
</tr>
<tr>
<td>Complete graduate application</td>
<td>Dec 2018 / Jan 2019</td>
</tr>
<tr>
<td>Admissions decision by the university</td>
<td>Feb/Mar 2019</td>
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<td>Admitted students apply for Balsells Fellowship</td>
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</tbody>
</table>
Admissions—How To

Requirements for admission to any of the Masters Programs:
• Undergraduate transcripts (original and English translation)
• GRE Scores
• TOEFL/IELTS Scores
• 3 Letters of Recommendation
  – Highlighting your potential for performing independent, thoughtful research, and ability to think beyond formal course assignments
• Candidate statement (Statement of Purpose)
  – How you prepared for the graduate degree (courses, experiences)
  – Interests and career goals (why you want to pursue this degree)
  – Fit (why you are a good match for the UC Davis program)
  – Your personal history that helped you decide to pursue this degree
Coursework requirements for admission differ for each of the Masters graduate programs:

- **Food Science & Technology M.S.**
  [http://foodscience.ucdavis.edu/graduate/courseprep.html](http://foodscience.ucdavis.edu/graduate/courseprep.html)
  (BS in Physical Science, Biological Science, or Engineering)

- **Biological Systems Engineering M.S.**:
  [http://bae.engineering.ucdavis.edu/graduate/admission-requirements/](http://bae.engineering.ucdavis.edu/graduate/admission-requirements/)
  (coursework in math, physics, chemistry, and engineering)

- **Viticulture & Enology M.S.**:
  (coursework in biology, chemistry, biochemistry, economics, math, microbiology, plant science, statistics, and industry experience)

**Balsells Website for UC Davis:** [http://balsells.ucdavis.edu](http://balsells.ucdavis.edu)
Information on GRE, TOEFL & IELTS exams:

Information on applying to UC Irvine:
http://www.grad.uci.edu/admissions/applying-to-uci/

Information on applying to CU Boulder:
http://www.colorado.edu/admissions/graduate/international

Information on applying to UCCS
https://www.uccs.edu/eas/academics/balsells_graduate.html

Information on applying to UC Davis
http://balsells.ucdavis.edu
For additional information please contact:

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colorado.edu/engineering/balsells

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

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http://balsells.ucdavis.edu