Europe-Colorado/Balsells Program

Professor Robert Davis and Britta Bergstrom

University of Colorado
Boulder

From Europe to Colorado

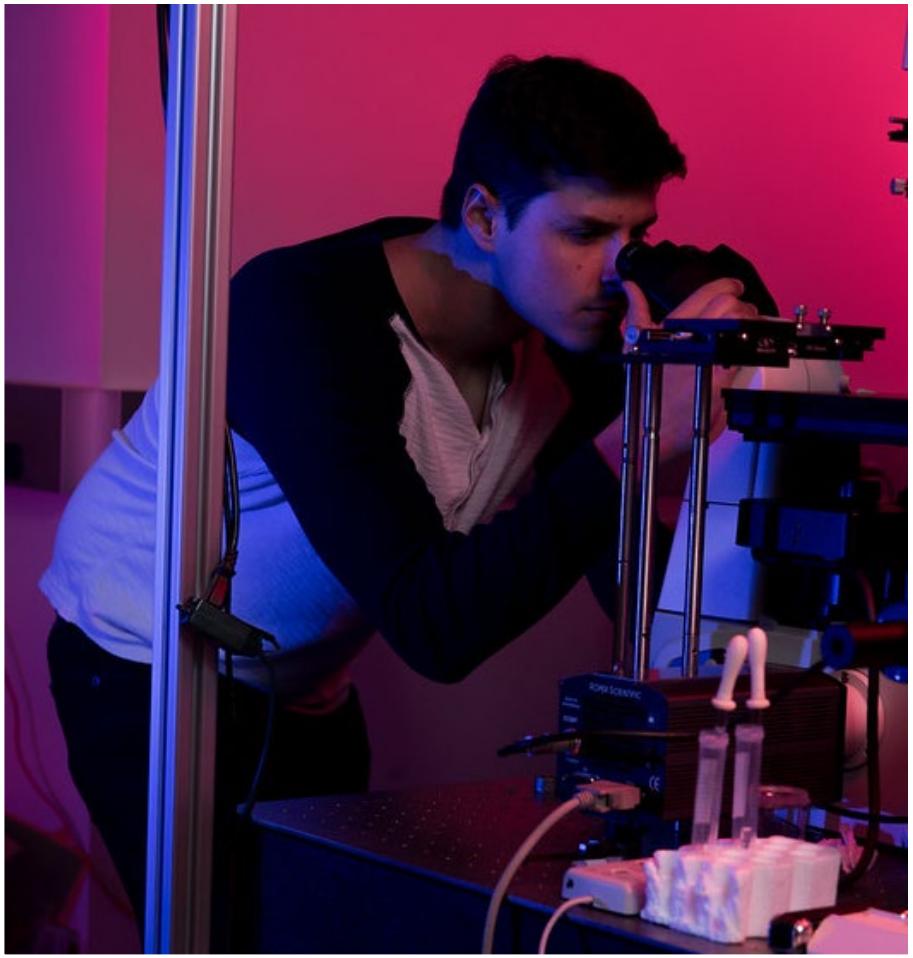
Two Student Opportunities

Mobility Program

Short-term visits to Colorado of 4-6 months to carry out final project for Bachelor's or Master's degree and to explore possibility of returning for a PhD.

Graduate Study

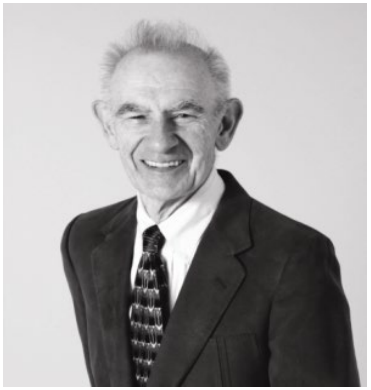
Long-term visits to obtain a PhD degree (5 years, including Master's on the way; 4 years if entering with a Master's).



Historical Perspective

The Balsells Fellowship (1996-2023)

Pete Balsells



1928 - 2022

UNIVERSITY of CALIFORNIA IRVINE

University of Colorado Boulder

Europe-Colorado (EC) Program (2020-present)

Expanded opportunities for students from any European country

- 100,000 people
- 1,655 m elevation
- 40 km from Denver
- 300 days of sunshine per year
- Recreation
- Culture

Boulder: Summer and Winter

Europe-Colorado Community Events

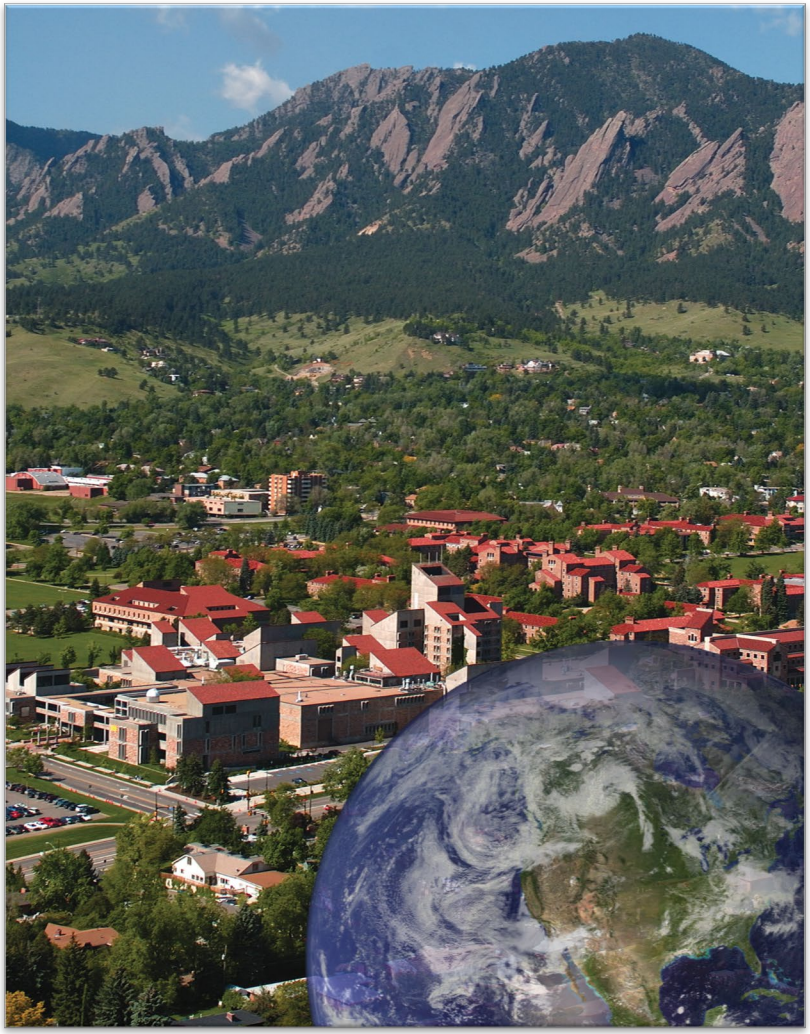
University of Colorado Boulder

- Founded 1876
- 38,000 students
- 5 Nobel Prize Winners
- 8 Schools & Colleges

College of Engineering & Applied Science

- 9,000 students
- Top ranking in region
- 9 departments/programs

CU Engineering Excellence



World-class expertise:

- Aerospace
- Computing
- Energy/Env. Sustainability
- Health/Bioengineering
- Materials

Top-10 public rankings:

- #5 Aerospace Engineering
- #9 Environmental Engineering
- #10 Chem Eng, Civil Eng

Ties to Industry/National Labs

Chemical & Biological Engineering at CU

Two choices for PhD:

- Chemical Engineering
- Biological Engineering

Research Expertise:

- Biomaterials/biotechnology
- Energy & sustainability
- Polymers & soft materials

Students:

- 338 ugrad, 166 grad
- 47% female, 53% male

Aerospace Engineering at CU

PhD choice: Aerospace Engineering Sciences

Research Areas:

- Astrodynamics & Satellite Navigation Systems
- Autonomous Systems
- Bioastronautics
- Fluids, Structures & Materials
- Remote Sensing, Earth and Space Science

Students:

- 1,239, 529 grad
- 27% female, 73% male

Civil, Environmental & Architectural Engineering

PhD choices:

- Architectural Engineering
- Civil Engineering
- Environmental Engineering

Students:

- 605 ugrad, 209 grad
- 49% female, 51% male

Research Areas:

- Building Systems
- Construction Engineering Management
- Environmental Engineering
- Geotechnical Engineering
- Hydrology & Water Resources
- Structural Engineering
- Humanitarian / Global Engineering

Computer Science at CU

PhD choice: Computer Science

Research Areas:

- Artificial Intelligence
- Computational Biology
- Programming Languages and Software
- Robotics
- Systems & Networking

Students:

- 1,799, 691 grad
- 23% female, 77% male

Electrical, Computer & Energy Engineering

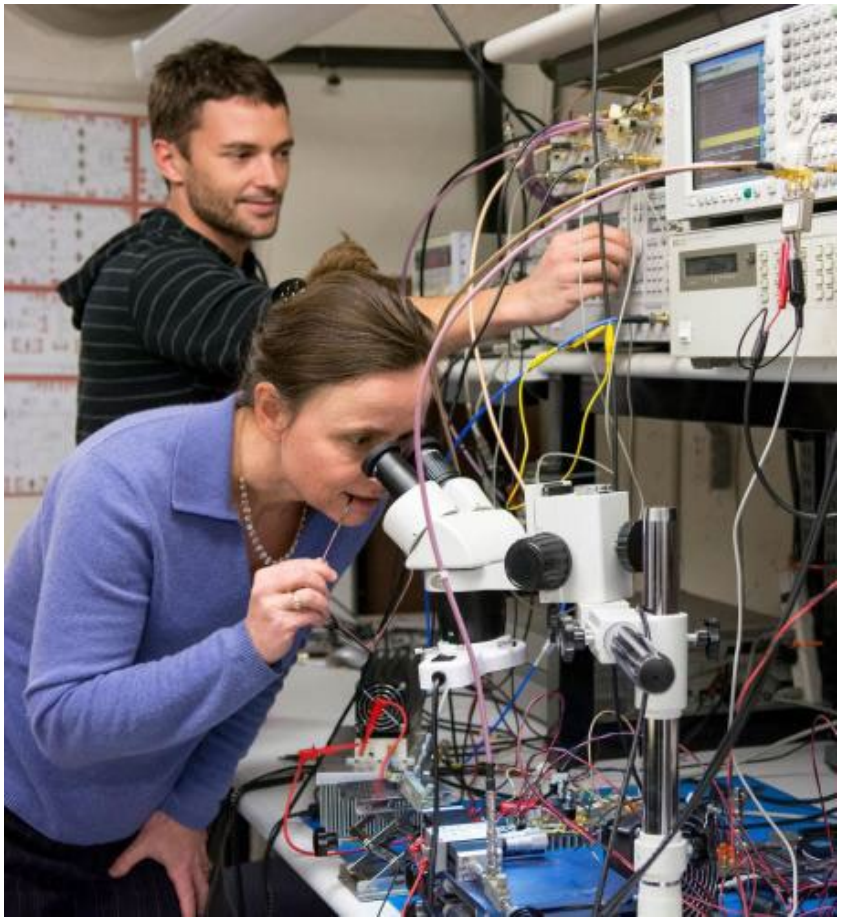
PhD choice: Electrical Engineering

Research Areas:

- Computer Engineering
- Electrocmagnetics
- Optics & Photonics
- Quantum Engineering
- Power Electronics

Students:

- 460 ugrad, 506 grad
- 19% female, 81% male



Mechanical Engineering at CU

PhD choice: Mechanical Engineering

Research Areas:

- Air Quality
- Biomedical Engineering
- Design
- Materials
- Robotics
- Thermo Fluid Sciences

Students:

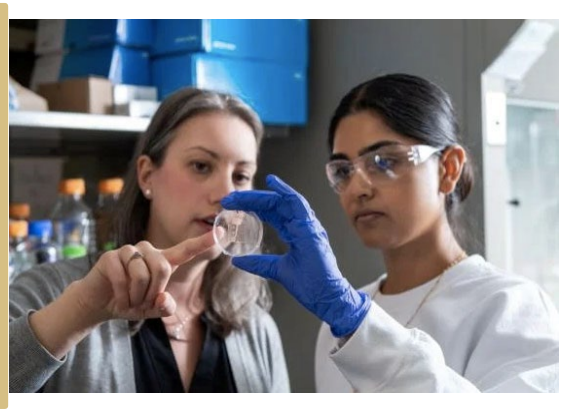
- 1,121 ugrad, 305 grad
- 25% female, 75% male

Mobility Program

- Undergraduates or master's students
- Undertake final project or master's thesis for one term (4-6 months) at CU Boulder
- Partial funding provided (up to $6,000)
- **Explore research interests and the possibility of returning for graduate study!**

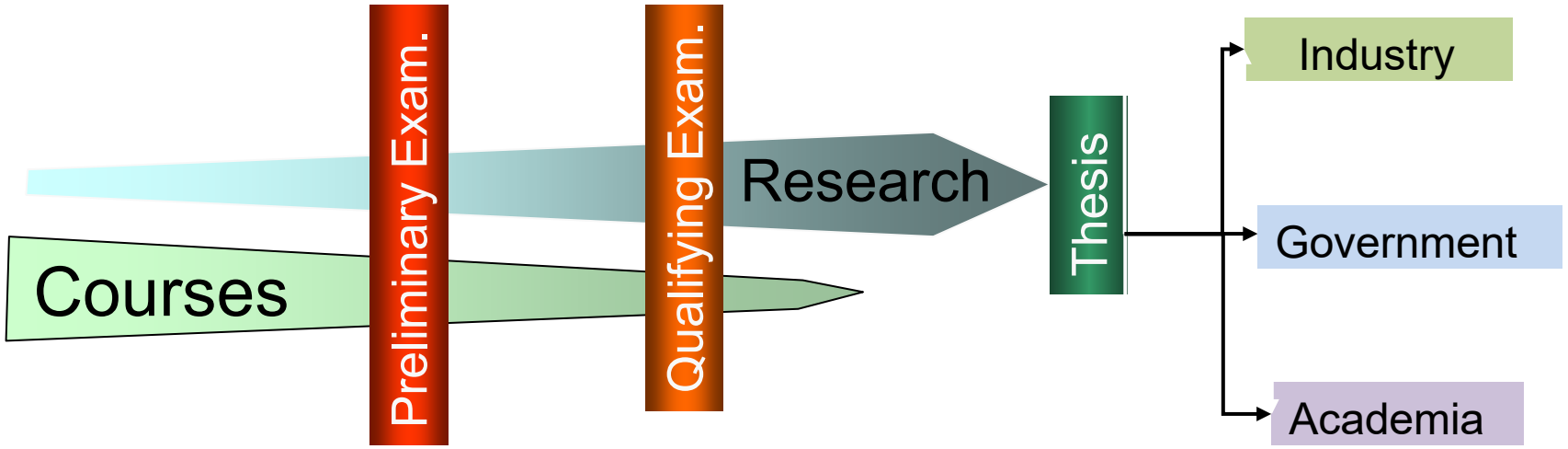
Please visit the following website for more information (it is recommended that you apply by 1 March for the next school year):

https://www.colorado.edu/engineering-international/europe-colorado-program



Graduate Program

Ph.D.: 4-5 years total (including MS on way or before)



Graduate student support typically includes:

- Research & teaching assistantships available for students seeking a PhD
- Monthly stipend: **approximately $37,000 per year (>$3,000 per month)**
- Tuition & Insurance: **approximately $40,000 per year**
- Travel funding through the Balsells Program available for Catalan students
- See website in previous slide for more information **(deadline 1 December)**

Balsells & EC Fellows at CU Boulder

59 MS and PhD fellows

118 mobility fellows

Countries represented to-date:
Spain, Netherlands, Italy, Ireland, Germany, Hungary, France, Austria

Student Profile: From Ireland to Colorado

Aoife Henry

- Received BS in Electrical Engineering from University College Dublin and MS in Energy Science and Technology from ETH Zurich
- Awarded the Europe-Colorado Mobility Scholarship to complete her MS thesis at CU Boulder

- **Currently a PhD student at CU Boulder in Electrical, Computer & Energy Engineering researching wind turbines**

Student Profile: From Valencia to Colorado

María Rueda Ibáñez

- Received BS degree in Biomedical Engineering from Universitat Politecnica de Valencia
- Came to Boulder in Spring 2024 to do final project through the Europe-Colorado Mobility Program

- **Currently a PhD student in Biomedical Engineering at the University of Colorado**

Student Profile: From Catalunya to Colorado

Oscar Fuentes Muñoz

- Received BS in Aerospace Engineering from Universitat Politècnica de Catalunya Terrassa
- Came to CU Boulder in Spring 2017 to complete TFG (bachelor's thesis) with the Balsells Mobility Program
- Awarded the Balsells Fellowship and received master's degree in 2019 and PhD in 2023 studying astrodynamics

- **Currently a postdoc at NASA's Jet Propulsion Lab in California**

One student's experience

Thank you! Any Questions?

For additional information please contact:

brittany.bergstrom@colorado.edu

colorado.edu/engineering-international/europe-colorado-program