New Faculty Orientation

Associate Dean for Research

College of Engineering & Applied Science

August 20, 2015
Office of the Associate Dean for Research

Bill Doe
Coordinator for Research Opportunities

Molly Riddell
Manager of Large Proposals

Linda Rose
Coordinator for Research Facilitation

Hilary Maybee
Assistant to the Associate Dean for Research

ADRoffice@Colorado.edu

http://www.colorado.edu/engineering/research/
University of Colorado

Total System Revenue $3.2B (FY14)
University of Colorado System

For FY 2014:

- CU-System is a $3.2B enterprise

2014 CU Systems Annual Report
https://content.cu.edu/controller/annualreport/2014/
University of Colorado at Boulder

Fall 2014

- 29,772 students
  - 24,818 ugrad
  - 4,954 grad
- 1129 T/TT faculty

- Research funding: $426M new awards in FY 2015
- Largest funding sources: NSF, NASA
- Tuition and Fees $589M
- Campus revenue $1.35B in FY14 (4.7% from state, ~$63M)
CU is a beacon in the mountain west
Research across Campus

For FY 2015:

- CU-Campus: $426 million in awards
Research across Campus

For FY 2015:

• CU-Campus: $426 million in awards
College of Engineering and Applied Sciences

- Six departments + 4 programs + 1 Institute
- 14 ugrad & 12 grad degree programs
- 240 Faculty and growing
- 5654 Students
  (3,988 ugrad; 1,666 grad – Fall 2014)
- Vision 2020 : 8000 students
Research @ CEAS

Awards

FY08: $42.9 M
FY09: $57.7 M
FY10: $65.8 M
FY11: $67.5 M
FY12: $73.2 M
FY13: $71.7 M
FY14: $72.8 M
FY15: $83.8 M
559 New awards in FY 2015: $83M
11 awards > $1M

- NSF 30%
- Dept. of Defense 10%
- NASA 10%
- HHS (NIH) 8%
- Industry 7%
- Other Federal 12%
- State & Local Gov't 1%
- Foundation & Other 13%
- Dept. of Energy 9%
- Other 13%
- Industry 7%
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Funding Portfolio

Awards by Funding Agency FY10 – FY15

Dept of Defense
Dept of Energy
NIH
NASA
NSF
Other Federal
Universities
Foundation & Other
Industry
State & Local Gov't
Research @ CEAS

FY2006 – FY2015

Awards By Year
Mark Your Calendars: 2015 Distinguished Research Lecture Series

The Distinguished Research Lecture is among the highest honors bestowed by the faculty upon a faculty member at CU-Boulder. The lectureship honors a tenured faculty member widely recognized for a distinguished body of academic or creative achievement and prominence, as well as contributions to the educational and service missions of CU-Boulder. This year’s lectures will include presentations given by Zoya Popovic, Diane McKnight and Doug Seals. Please RSVP and let others in your department know about these special opportunities:

- **Zoya Popovic: The Wireless World: 50 cell phones sold per second!**
  Lecture to be held Wednesday, September 16, 2015 at 4 p.m. in Glenn Miller Ballroom.
  Zoya Popovic is a Distinguished Professor and the Hudson Moore Jr. Endowed Chair of Electrical Engineering at the University of Colorado. She obtained her Dipl.Ing degree at the University of Belgrade, Serbia, and her Ph.D. at Caltech. She has graduated over 50 Ph.Ds and currently advises 15 doctoral students in various areas of high-frequency electronics and microwave engineering. She is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the recipient of two IEEE Microwave Theory and Techniques (MTT) Microwave Prizes for best journal papers, the White House National Science Foundation (NSF) Presidential Faculty Fellow award, the International Union of Radio Science (URSI) Issac Koga Gold Medal, the American Society of Engineering Education (ASEE) HP Turman Medal and the German Humboldt Research Award. She was named IEEE MTT Distinguished Educator in 2013. She and her physicist husband have three daughters. [Register online to attend.](#)

- **Diane McKnight: The McMurdo Dry Valleys, Antarctica: Ecosystems Waiting for Water**
  Lecture to be held Thursday, October 29, 2015 at 4 p.m. in UCAR 225.
  Diane M. McKnight is a Professor in the Department of Civil, Environmental and Architectural Engineering and a Fellow of the Institute of Arctic and Alpine Research at the University of Colorado. She is Director of the Center for Water, Earth Science and Technology, and Co-director Hydrolologic Sciences Graduate Program. Her research focuses on the biogeochemistry of natural organic material and trace metals in streams and lakes, and the consequences for water supplies. She has conducted research on stream ecosystems as part of the McMurdo Dry Valleys Long-Term Ecological Research (MCD-LETTER) project and on alpine lakes and acid mine drainage streams in the Rocky Mountains. She has been President of the American Society of Limnology and Oceanography and editor of Journal of Geophysical Research - Biogeosciences. She was elected to the National Academy of Engineering in 2012 and was awarded the John Dalton Medal from the European Geophysical Union in 2015. [Register online to attend.](#)

- **Doug Seals: Can We Achieve Optimal Longevity? From Cells to the Community: The New Translational Physiology of Healthy Aging**
  Lecture will be held on Thursday, March 17, 2016 at 4 p.m. in Glenn Miller Ballroom. Registration will open in January, 2016.
  Doug Seals primary research interest is to establish lifestyle and pharmacological strategies that optimize physiological function with aging and thereby extend the period of healthy life (“healthspan”). Much of his recent work has focused on preventing vascular aging (the major cause of cardiovascular disease), and promoting translational physiological approaches in biological and biomedical aging research. Dr. Seals’ laboratory provides scientific training at the undergraduate, M.S., Ph.D. and postdoctoral levels. His research has been continuously funded by research grants from the National Institutes of Health (NIH), particularly the National Institute on Aging (NIA), since 1986. Dr. Seals has taught undergraduate courses in physiology, and graduate courses in the physiology of aging, as well as professional skills for the research scientist. In recent years, he has engaged in extensive public outreach efforts to promote healthy aging practices in the community, including a CU on the Weekend series in the spring of 2015.
CEAS Research Website

http://www.colorado.edu/engineering/research
CU VCR Website

http://www.colorado.edu/vcr/

The Office of the Vice Chancellor for Research supports CU-Boulder’s world-class research endeavors by serving as a focal point for investment in our campus research, scholarship and creative works. We strive to provide the infrastructure and administrative support necessary to promote and sustain our highly productive faculty and research programs.

You can find here all the research-related administrative resources (funding and awards, sponsored research, compliance, HR processes, and more) under our purview, as well as links to other resources handled at the University of Colorado System level or through other venues.

Learn more about the research infrastructure.

Research & Creative Works in the News

Research at CU-Boulder encompasses thousands of scholarly, scientific, and creative endeavors at any time. Recent headlines include:

CU-Boulder alumnus’s dreams realized as New Horizons encounters Pluto
CU OCG Website

http://www.colorado.edu/ocg/
CU Bursars Website

https://bursar.colorado.edu/

Tuition and Fees Rate Sheets

Tuition is based on residency (in-state, out-of-state, international), type of degree, and number of credit hours. The following detailed tuition and fee rate sheets include tuition, mandatory fees, and housing rates per semester. You can also view estimated cost of attendance for undergraduates.

FALL 2015 AND SPRING 2016 PER SEMESTER

Undergraduate In-State Tuition and Fees Fall 2015 & Spring 2016

Undergraduate Out-Of-State Tuition and Fees Fall 2015 & Spring 2016
Undergraduate out-of-state tuition charged is a flat rate regardless of the number of credit hours (Out-of-state Undergraduate Tuition Guarantee)

Undergraduate International Tuition and Fees Fall 2015 & Spring 2016
Undergraduate international tuition charged is flat rate same as undergraduate out-of-state tuition. (Out-of-state Undergraduate Tuition Guarantee)

Looking for information on the ASSET Bill? Contact Tuition Classification in...
## Graduate Tuition

**TUITION**

**PER SEMESTER**

**GRADUATE IN-STATE**

(Colorado resident for tuition purposes)

<table>
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<tr>
<th>Credit Hours</th>
<th>A&amp;S/EDUC/ENV/DMusic(1)</th>
<th>CMCI(1)</th>
<th>MBA(1)</th>
<th>Business Professional Masters(2)</th>
<th>Business PhD</th>
<th>Engineering</th>
<th>Engineering Professional Masters(2)</th>
<th>Law JD</th>
<th>Law Professional Masters(2)</th>
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Tuition Remission

Tuition remission will be calculated based on the percent time of the appointment:

<table>
<thead>
<tr>
<th>Hours Employed per Week</th>
<th>Tuition Waiver</th>
<th>Appointment Percentage</th>
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<tbody>
<tr>
<td>6</td>
<td>3 credit hours</td>
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<td>8</td>
<td>4 credit hours</td>
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<tr>
<td>12</td>
<td>6 credit hours</td>
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<td>14</td>
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<td>18-20</td>
<td>9-18 credit hours</td>
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</table>

NOTE: Appointment percentages that fall between listed percentiles will always carry the tuition credit associated with the lower number. For example, a 38% appointment would carry a tuition credit of 7 credit hours.

See graduate student appointment manual
http://www.colorado.edu/GraduateSchool/funding/_docs/appointmentmanual.pdf
CU ORI Website

http://www.colorado.edu/vcr/ori

ORI (Compliance)

The University of Colorado Boulder is committed to scientific and ethical integrity as well as academic excellence in all research activities with which our students, faculty and staff are associated. This website contains information on how the Office of Research Integrity (ORI) supports those needs in regards to:

- Animal Care and Use
- Office of Animal Resources
- Conflicts of Interest & Commitment
- Controlled Substances Used in Research
- Export Controls
- Human Research
- Research Misconduct
- Responsible Conduct of Research

The following offices also assist CU-Boulder researchers in ensuring compliance to federal regulations on separate websites:

Office of Contracts & Grants (OCG)

Quick Links
- Animal Care & Use Program
- Human Research & IRB
- Export Controls
- Controlled Substances
- Conflicts of Interest & Commitment
- Responsible Research
Other policies of interest


- **Consulting 1/6th rule**: [https://facultyaffairs.colorado.edu/a-z-information-guide-docs/one-sixth-rule.pdf/view](https://facultyaffairs.colorado.edu/a-z-information-guide-docs/one-sixth-rule.pdf/view)

- **Matching Support**: [http://www.colorado.edu/vcr/resources/policies](http://www.colorado.edu/vcr/resources/policies)
CU OIT Website

http://www.colorado.edu/oit/
CU OIC Website

http://www.colorado.edu/industry/
Grants sites
# Award Lifecycle

## Sponsored Project

### Award Lifecycle

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<thead>
<tr>
<th>Pre-Award</th>
<th>OCG</th>
</tr>
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<tbody>
<tr>
<td>Finding Funding 1</td>
<td>OCG Proposal Analysts work closely with PI's, providing expertise in budgeting and proposal preparation to help PI's prepare the best possible proposal. PI's are responsible for contacting Proposal Analysts at least five business days before the deadline and understanding all of the sponsor's requirements.</td>
</tr>
<tr>
<td>Proposal Development 2</td>
<td>OCG is the Authorized Organizational Representative (AOR). OCG Proposal Analysts submit all sponsored research proposals. During the Sponsor Review, Just In Time (JIT) or other sponsor requests are submitted by OCG.</td>
</tr>
<tr>
<td>Proposal Review &amp; Approval 3</td>
<td>OCG holds the delegation of signature authority for University sponsored research contracts and grants. OCG staff review all awards and negotiate terms with the Sponsor. As applicable, PI's work with departments in the Office of Research Integrity on required protocol approvals (i.e., IACUC, IRB, Export Control, etc.)</td>
</tr>
<tr>
<td>Proposal Submission 4</td>
<td>When the award is fully executed, it is forwarded to Sponsor Projects Accounting (SPA) for processing and assignment of Project Number and SpeedType. Concurrently, if there is a subcontract on the award, it is forwarded to the OCG Subcontracts team for review and contracting.</td>
</tr>
<tr>
<td>Post-Award</td>
<td>SPA</td>
</tr>
<tr>
<td>Notice of Award, Review &amp; Acceptance 5</td>
<td>PI's, with the support of their Department Administrators, provide overall financial and programmatic stewardship of their award. SPA and OCG provide expertise in financial administration, cash management, property oversight, and reporting.</td>
</tr>
<tr>
<td>Award Set-up &amp; Outgoing Subcontracts 6</td>
<td>During closeout, PI’s, Department Administrators, OCG and SPA work to wrap up all financial and administrative tasks, including ensuring all deliverables and reports are sent to the Sponsor. SPA manages all financial closeouts and coordinates all sponsored project audits for the University.</td>
</tr>
<tr>
<td>Award Management 7</td>
<td>Closeout &amp; Audit 8</td>
</tr>
</tbody>
</table>
Other Items

- Travel cards
- Procurement cards
- Procurement and capital equipment
- Speed types (e.g. 13466765 or 13073979 or 11053848)
  - 10 – unrestricted general operating
  - 28/29 – self funded operations
  - 30 – restricted federal grant
  - 34 – restricted gift
- Financial system
- Summer salary
  - NSF limit of 2 months
- AY, CY, FY, …
- ePERS certification
Keys to success

• Learn the systems
• Ask for help
• Start early
• Read the RFP/FOA/AO etc.
• Be courteous of the staff
• Assume you don’t have signing authority (contracts, NDA, etc)
• Submit your reports on time

The ADR office is here to help