New Faculty
Civil and Environmental Engineering

• Amanda Bordelon, Assistant Professor
• Ph.D. Civil & Environmental Engineering, 2011, University of Illinois at Urbana-Champaign
• M.S. Civil & Environmental Engineering, 2007, University of Illinois at Urbana-Champaign
• B.S. Civil & Environmental Engineering, 2005, University of Illinois at Urbana-Champaign

• Research interests: Materials, transportation infrastructure, fracture mechanics testing, and analysis techniques.
Haori Yang, Assistant Professor
Ph.D. Nuclear Engineering and Radiological Sciences, 2009, University of Michigan, Ann Arbor
M.S.E. Nuclear Engineering and Radiological Sciences, 2006, University of Michigan, Ann Arbor
M.S.E. Engineering Physics, 2003, Tsinghua University, Beijing, P.R. China
B.S.E. Engineering Physics, 2001, Tsinghua University, Beijing, P.R. China

Research interests: Radiation detectors, imaging systems and instrumentation for nuclear waste assay, radiation monitoring systems, and homeland security applications.
Shelley D. Minteer, USTAR Professor

Ph.D. Analytical Chemistry, 2000, University of Iowa

B.S. Chemistry, 1995, Western Illinois University

Saint Louis University, 2000-2011

Co-Founder of Akermin, Inc.

Research interests: Electrochemistry -- Chemically modified electrodes, biosensors, enzyme immobilization and stabilization membranes, bioelectrocatalysis, biofuel cells, biobatteries, biomimicking of metabolism.
Feifei Li, Assistant Professor
Ph.D. Computer Science, 2007, Boston University
B.S. Computer Engineering, 2002, Nanyang Technological University, Singapore (transferred from Tsinghua University, China)

Research interests: Database Systems, with a focus on large-scale, probabilistic, spatio-temporal and multimedia data. Security and privacy issues in large-scale data management.
• Miriah Meyer, USTAR Assistant Professor
• Postdoctoral Research Fellow, School of Eng and Applied Sciences, 2009-2011, Harvard University
• Postdoctoral Research Fellow, Initiative in Innovative Computing, 2008-2009, Harvard University
• Ph.D. Computer Science, 2008, University of Utah
• B.S. Astronomy & Astrophysics, 1999, Pennsylvania State University

• Research interests: Visualization of genomics and molecular biology data.
School of Computing

• Jeff Phillips, Assistant Professor
• CI Postdoctoral Fellow, School of Computing, 2009-present, University of Utah
• Postdoctoral Associate, Dept of Computer Science, 2009, Duke University
• Ph.D. Computer Science, 2009, Duke University
• B.A. Mathematics, 2003, Rice University
• B.S. Computer Science, 2003, Rice University

• Research interests: Algorithms, data mining, machine learning, databases, computational geometry, computational statistics.
Jur van den Berg, Assistant Professor

Postdoctoral Research Associate, Dept of Computer Science, 2010-2011, 2007-2009, University of North Carolina at Chapel Hill

Postdoctoral Research Associate, Dept of Industrial Engineering and Operations Research, 2009-2010, University of California, Berkeley

Ph.D. Computer Science, 2007, Utrecht University, Netherlands

M.Sc./B.Sc. Computer Science, 2003, University of Groningen, Netherlands

Administrative Changes

Dean of Engineering
Richard B. Brown

Assoc. Dean Academics
Milind D. Deo

Assoc. Dean Research
Eric G. Eddings

Bio
Patrick Tresco

Chemical
JoAnn Lightly

Civil
Paul Tikalsky

Electrical
Gianluca Lazzi

Materials
Anil Virkar

Mechanical
Tim Ameel

Computer
Al Davis
Utah Biomedical Engineering Conf.

- You and your graduate students are invited
- Free Register at www.ubec.bioen.utah.edu
- Keynote address: Chris Johnson
- Podium presentations
- Student posters
- Local Industry participation

Rice-Eccles Tower
at the University of Utah Football Stadium
September 10, 2011
9am—8pm
College Awards

Service
COE Outstanding Technical Staff

Nathan Weston
Electrical & Computer Engineering

“Nathan doesn’t just ‘do what he is asked,’ he anticipates what is needed.”
“There are several characteristics that exemplify Ryan’s abilities—he is honest, forthright, dedicated and a person of integrity.”
COE Outstanding Service

College Outreach Team

Dianne Leonard
Academic Advisor

Deidre Schoenfield
Outreach/Diversity Coordinator

Ashley Paulsen
Academic Coordinator

Jeff Bates
Academic Coordinator
Dianne Leonard
Academic Advisor

“Dianne is dedicated to the extreme, going the extra mile to help students, parents, donors, faculty and staff”
COE Outstanding Service

Deidre Schoenfield
Outreach/Diversity Coordinator

“Deidre is enthusiastic, creating interest and excitement for young learners in the field of engineering”
COE Outstanding Service

Ashley Paulsen
Academic Coordinator

"Ashley is positive and caring, giving young students confidence in their ability to pursue an engineering career"
“Jeff’s creativity is boundless and his projects for young students inspire genuine and lasting interest in the field of engineering”
College Awards

Teaching
Undergraduate Lecture Course Evals

Average of C7, I2 and I7

144 Courses
Graduate Lecture Course Evals

Average of C7, I2 and I7

74 Courses
Top UG Teachers “Lecture”: Fall 2010

BIOENGINEERING:  
Doug CHRISTENSEN  
Steve POELZING

CHEMICAL ENGINEERING:  
Kevin WHITTY

CIVIL & ENVIRONMENTAL ENGINEERING:  
Steve BURIAN  
Torch ELLIOTT

SCHOOL OF COMPUTING:  
Roger ALTIZER  
Bob KESSLER  
John REGEHR  
Mark VAN LANGEVELD

ELECTRICAL & COMPUTER ENGINEERING:  
Marc BODSON  
Cynthia FURSE  
Arn STOLP

MATERIALS SCIENCE & ENGINEERING:  
Raymond CUTLER  
Ashutosh TIWARI

MECHANICAL ENGINEERING:  
Seubpong LEELAVANICHKUL  
Meredith METZGER
BIOENGINEERING:
  Tamrika KHVTISIASHVILI
  Rob MACLEOD
  Brenda MANN
  Heather PALMER
  Brenda SIECZKOWSKI
  Patrick TRESKO
  Jeffrey WOLCHOK

CHEMICAL ENGINEERING:
  Eric EDDINGS
  Geoff SILCOX

CIVIL & ENVIRONMENTAL ENGINEERING:
  Torch ELLIOTT
  Tatjana JEVREMOVIC
  Paul TIKALSKY
  Haori YANG

SCHOOL OF COMPUTING:
  Peter JENSEN
  Rich RIESENFELD
  William THOMPSON

ELECTRICAL & COMPUTER ENGINEERING:
  Arn STOLP

MATERIALS SCIENCE & ENGINEERING:
  Dave RICHERSON

MECHANICAL ENGINEERING:
  Dan ADAMS
  Meredith METZGER
Top UG Teachers “Labs”: Fall 2010

BIOENGINEERING:

CHEMICAL ENGINEERING:
  Tony BUTTERFIELD

CIVIL & ENVIRONMENTAL ENGINEERING:
  Steve BURIAN

SCHOOL OF COMPUTING:
  Erik BRUNVAND
  Jim DE ST GERMAIN
  Peter JENSEN
  Daniel KOPTA
  Erin PARKER

ELECTRICAL & COMPUTER ENGINEERING:

MATERIALS SCIENCE & ENGINEERING:

MECHANICAL ENGINEERING:
  Adam HOWELL
  Rob STOLL
  Gerald WHEELER
Top UG Teachers “Labs”: Spring 2011

BIOENGINEERING:
   Patrick TRESCO

CHEMICAL ENGINEERING:
   Tony BUTTERFIELD

CIVIL & ENVIRONMENTAL ENGINEERING:
   Tatjana JEVREMOVIC

SCHOOL OF COMPUTING:
   Peter JENSEN
   Erin PARKER
   Ross WHITAKER

ELECTRICAL & COMPUTER ENGINEERING:

MATERIALS SCIENCE & ENGINEERING:

MECHANICAL ENGINEERING:
   Jake ABBOTT
   Adam HOWELL
   Debbie MASCARO
Top Graduate Teachers: Fall 2010

BIOENGINEERING:

CHEMICAL ENGINEERING:
  Jules MAGDA

CIVIL & ENVIRONMENTAL ENGINEERING:
  Steven BARTLETT
  Dong-OK CHOE
  Evert LAWTON

SCHOOL OF COMPUTING:
  Eric EIDE
  Chuck HANSEN

ELECTRICAL & COMPUTER ENGINEERING:
  Doug CHRISTENSEN
  Neal PATWARI
  P.R. Sai ANANTHANARAYANAN
  Tolga Tasdizen

MATERIALS SCIENCE & ENGINEERING:
  Ling Zang

MECHANICAL ENGINEERING:
  Don Bloswick
  Mathieu FRANCOEUR
  Bruce GALE
BIOENGINEERING:
  Orly ALTER
  Gregory CLARK
  Chuck DORVAL

CHEMICAL ENGINEERING:
  Milind DEO

CIVIL & ENVIRONMENTAL ENGINEERING:

SCHOOL OF COMPUTING:
  Matt FLATT
  Tom FLETCHER
  Valerio PASCUCCI
  Chris SIKORSKI
  William THOMPSON

ELECTRICAL & COMPUTER ENGINEERING:
  Rong Rong CHEN

MATERIALS SCIENCE & ENGINEERING:
  Grant SMITH

MECHANICAL ENGINEERING:
  Dan ADAMS
  Stacy BAMBEK
  Kuan CHEN
COE Outstanding TA

Adam Howell
Mechanical Engineering

“Adam was determined to give specific, attentive instruction to each student that needed his aid.”
Erin Parker
School of Computing

“Erin…typifies what it is to be a good leader, a good teacher, and a good scientist.”
College Awards
Research
2010 Research Expenditures > $1 Million

BIOENGINEERING:
  Patrick KISER
  Hamid GHANDEHARI
  Jeffrey WEISS

CHEMICAL ENGINEERING:
  Phillip SMITH
  Kevin WHITTY
  Milind DEO
  Eric EDDINGS

CIVIL & ENVIRONMENTAL ENGINEERING:
  Raymond LEVEY (EGI)
  Brian McPHERESON

SCHOOL OF COMPUTING:
  Chris JOHNSON
  Valerio PASCUCCI
  Ross WHITAKER

ELECTRICAL & COMPUTER ENGINEERING:
  Florian SOLZBACHER
  Massood TABIB-AZAR

MATERIALS SCIENCE & ENGINEERING:

MECHANICAL ENGINEERING:
Research Expenditures

- FY 2002: $25M
- FY 2003: $68.4M

ASEE Data
Tenure-Track Faculty Growth

ASEE Data
U of U OBIA data
Other Awards
University Faculty Honors

• Robert Hitchcock
  – University Professorship

• Neal Patwari
  – Early Career Teaching Award

• Meredith Metzger
  – Early Career Teaching Award
• Jindřich (Henry) Kopeček
• Departments
  – Bioengineering
  – Pharaceutics and Parmaceutical Chemistry
• Fellow of 13 Scientific Societies
• Polymeric Drug Conjugates
• HPMA as Drug Carrier
Faculty Honors

• Eric Eddings
  – Honorary Doctorate
    University of Miskolc Hungary

• Richard Normann
  – Honorary doctorate
    Miguel Hernandez University
    Elche, Spain
CAREER Awards

• **Ramesh Goel, CvEE**
  – *Bacteriophages in Bioreactors*

• **Rajesh Menon, ECE**
  – *High Efficiency Photovoltaics*

• **Jake Abbott, ME**
  – *Magnetically Controlled Microrobots*

• **Tom Fletcher, SoC**
  – *Biomedical Image Processing*
Best Paper Awards

- Lowell Edgar  
  Bio  
  Biomechanics & Biomedical Eng.

- Jeffrey Weiss  
  Bio  
  W.M. Harris Award, Orth. Res. Soc.

- Rachel Anderson  
  CvEE  
  Environmental Div. of AIChE Conf.

- Jeff Spiegel  
  ECE  
  Autotestcon

- Massood Tabib-Azar  
  ECE  
  Quality Electronic Devices

- Harsh Bhatia  
  SoC  
  Pacific Visualization Conference

- Audo Cutic & Todd Sherman  
  Nuclear (CvEE)  
  American Nuclear Society
Faculty Honors

• Chris Johnson
  – 2010 IEEE Visualization Career Award

• Mary Hall
  – ACM Distinguished Scientist

• Milind Deo
  – Society of Petroleum Engineers
Graduate Student Fellowships

- Lindsey Elizabeth Corum, Bio
  - American Heart Association Post-Doc
- Adam Gormley, Bio
  - Department of Defense Fellowship
- Shannon Hansen, CvEE
  - Dwight David Eisenhower Transportation
- Jeff Taylor, CvEE
  - Dwight David Eisenhower Transportation
- Precious Cantu, ECE
  - NSF Graduate Research Fellowship
- Huy Vo, SoC
  - NVIDIA Graduate Fellowship
- Weibin Sun, SoC
  - NVIDIA Graduate Fellowship
Student Competitions

• First Place Fiber Reinforced Composite Concrete Competition, CvEE
• Third Place NASA Moon Buggy in international competition, ME
• First Place Chem-E Jeopardy, AIChE Mount. West Regional Conf., ChE
• First Place (Benjamin Skousen) Student paper competition at the Dam Safety Conference, CvEE
• First Place Milan Zlatkovic Utah Institute of Transportation Engineers Paper Competition, CvEE
• Adam Kirk developed a top-selling iPhone app, SoC
College Budget
Productivity Funds

<table>
<thead>
<tr>
<th>Department</th>
<th>fy11</th>
<th>fy12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outreach</td>
<td>4,845</td>
<td>930</td>
</tr>
<tr>
<td>BioE</td>
<td>113,815</td>
<td>124,054</td>
</tr>
<tr>
<td>ChE</td>
<td>40,632</td>
<td>86,274</td>
</tr>
<tr>
<td>CvEE</td>
<td>30,457</td>
<td>72,067</td>
</tr>
<tr>
<td>NEP</td>
<td>15,860</td>
<td></td>
</tr>
<tr>
<td>SoC</td>
<td>116,261</td>
<td>183,981</td>
</tr>
<tr>
<td>ECE</td>
<td>61,146</td>
<td>130,475</td>
</tr>
<tr>
<td>MSE</td>
<td>23,346</td>
<td>24,540</td>
</tr>
<tr>
<td>ME</td>
<td>189,581</td>
<td>154,284</td>
</tr>
</tbody>
</table>
State Engineering Budgets

Total College Budget of ~ $120M.
Total Engineering Budget

- **State Budget**: 58%
- **USTAR $**: 13%
- **Donations**: 24%
- **Other funds**: 3%

Total Engineering Budget: $117.3 MILLION
84% increase since 1999

47th in US for BS

36th in US for Ph.D.s
Physical Facilities
Floyd and Jeri Meldrum CvEE Bldg.

October 28, 2010 Ribbon-Cutting
Engineering in USTAR Building

- **Brain Institute**
- **Nano Institute**
- **Bioengineering Front Office**
Nanofab Construction
Courtyard by Cafe
Pedestrian Walk
Kennecott – Mechanical Engineering

MJS Architects
Kennecott Views: NW, NE, SW, SE
Inviting Gathering Places
Improved Office Spaces
Teaching and Research Spaces
A New Life for the Kennecott Bldg.
Phase I Timetable

Architect’s Study  Summer  2010
Design          Fall      2010
Programming     Spring    2011
Pre-Construction Phase  Fall  2011
Construction Documents  Fall  2011
Construction      Spring    2012
Project Completion  Fall     2013
Funding Plan

- **Phase 1 Total Project Cost** $10M
- **University funds** $2M
- **College investment** $5M
- **Private campaign** $3M
• Thanks for your part in making this a great college!

• **College of Engineering Status**
  – Comparatively Good Budget
  – Continuous Improvement
    • Students – More and Better
    • Faculty -- Still Hiring, Better Mentoring
    • Research -- Growing in Volume and Quality
    • Advancement – More Important than Ever

• **Recognition for Quality Research, Teaching and Service**