Introduction

Contact

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Agenda

- UW: A unique opportunity
- BSE: The degree
- The Foundation
- Career Opportunities
- Student Support
Why UW?

- First-tier - Academics and Research
- Universally Recognized
  - *Forbes* ranked the UW 8th best public university in America
  - *US News Global University* ranked UW 11th best university in the world
  - UW ranked 7th in the world by the *Washington (DC) Monthly*
- Doorway to unlimited Opportunities
What is Bioresource Science & Engineering (BSE)?

“The BSE program applies process chemical engineering fundamentals, natural products chemistry, and materials science to the sustainable production of fiber products, fuels and chemicals from biomass resources.”

- Delivers an accredited engineering degree with a strong process chemical engineering core
- Focuses application of core engineering knowledge on value added conversion of bio-resources
- Exposes students to the “real world” through hands-on laboratory work and the engagement of our member companies to provide internship opportunities
Evolution of BSE

Process Engineering Fundamentals
Wood → Pulp Mill → Paper Products
Evolution of BSE

Pulp & Paper

Process Engineering Fundamentals

Chem E + College of Forestry = P&PT
Wood, Biomass → Biorefinery → Electricity, Pulp & Paper, Chemicals
Evolution of BSE

P&PT + ABET = PSE
PSE + Bioresource = BSE
Evolution of BSE

- Pulp & Paper
- Process Engineering Fundamentals
- Bioresource

5th Yr Chem E

Engineering Topics

Business Option
Our BSE Graduates

• **Career Opportunities**
  ✓ Process engineering including environmental management
  ✓ Product design and development
  ✓ Product quality
  ✓ Technical sales
  ✓ Manufacturing supervision and management
  ✓ Business and corporate management

• **Starting Salary**  -  $65,000 +
• **Essentially 100% placement**
Where do BSE graduates work?

- Pulp and paper manufacturers (41%)
- Suppliers to industry (20%)
- Consulting (13%)
- Graduate school (5%)
- Others (21%)

84 graduates over past 5 years
WPPF & BSE:
A Unique Relationship

- Unique partnership. No other at the UW.
- Began in 1968.
- More than 50 current members.
WPPF & BSE: A Unique Relationship

- Unique partnership. No other at the UW.
- Began in 1968.
- More than 50 current members.
- Internships, mentoring, full time employment.
- Member companies hire >80% of our graduates.
- Members provide feedback to the program.
Why does the WPPF support BSE?

- Complete and rigorous technical education
- Experiential learning
- Develops communication skills
- Requires leadership and teamwork
- Emphasizes problem solving
- Provides employees for the future
BSE Scholarships

• Awarded by:
  ✓ WPPF (Washington Pulp & Paper Foundation)
  ✓ SEFS (School of Environmental and Forest Sciences)
  ✓ This year 100% of eligible new WPPF scholars received scholarships

• BSE Scholarships for ‘15-’16:
  ✓ ~ 50 Scholarships (approx. 3/4 of students)
  ✓ Budget - ~$300,000
BSE Scholarships

• Scholarship Awards
  ✓ Academic merit (primary)
  ✓ Demonstrated leadership potential
  ✓ BSE and BSE/Chem E majors

• Duration
  ✓ 12/6 terms - freshman/transfer students
  ✓ Additional 3 terms for 5th year Chem E degree

• Value
  ✓ Approximately $30,000 potential support
# Scholarship Awards

<table>
<thead>
<tr>
<th>Academic Year = Autumn, Winter &amp; Spring quarters</th>
<th>Basic GPA</th>
<th>Honors GPA</th>
<th>Premium GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>First year</td>
<td>GPA 3.0-3.29</td>
<td>GPA 3.3-3.49</td>
<td>GPA 3.5-4.0</td>
</tr>
<tr>
<td>Sophomore</td>
<td>$3,000*</td>
<td>$3,000*</td>
<td>$3,000*</td>
</tr>
<tr>
<td>Junior</td>
<td>$3,000</td>
<td>$3,500</td>
<td>$4,000</td>
</tr>
<tr>
<td>Senior</td>
<td>$3,000</td>
<td>$4,000</td>
<td>$5,000</td>
</tr>
<tr>
<td><strong>BSE TOTAL</strong></td>
<td><strong>$12,000</strong>*</td>
<td><strong>$14,500</strong>*</td>
<td><strong>$17,000</strong>*</td>
</tr>
<tr>
<td>5&lt;sup&gt;th&lt;/sup&gt; Year Chem E</td>
<td>$3,000</td>
<td>$4,000</td>
<td>$5,000</td>
</tr>
<tr>
<td>TOTAL with ChemE</td>
<td>$15,000 + SEFS incentive</td>
<td>$18,500 + SEFS incentive</td>
<td>$22,000 + SEFS incentive</td>
</tr>
</tbody>
</table>

* Potential Freshman SEFS incentive of additional $9,000
BSE Scholarship Application

• Application:
  ✓ Request: wppf@uw.edu
  ✓ Web: http://depts.washington.edu/wppf/
  ✓ Download and print: http://depts.washington.edu/wppf/BSE-WPPF_Application.pdf

• Competition is keen – new students submit by Feb 15. Current students apply anytime.

• Apply for UW Financial Aid
  ✓ Two BSE scholarships are need-based
Other Financial Assistance

• Internship and Co-op Experiences:
  ✓ Typically pay $2,500 to $4,000 per month
  ✓ Students can start in the summer prior to sophomore year

• Independent Work Opportunities in BSE Department

• Comprehensive UW Financial Aid
  ✓ Scholarships, grants, work study, loans
  ✓ http://www.washington.edu/students/osfa/
... and we have some fun!
Some Key Dates

December 1, 2015: Deadline for direct freshman application for Autumn 2016

February 15, 2016: Deadline for transfer application for Autumn 2016
BSE: Where Else Can You Find---

- Department that helps pay for your education?
- Complementary work experiences?
- Unique relationship with potential employers?
- Fully accredited engineering degree?
- Department that cares - place to call home?
- Small class sizes - know your professors?
- Pathway to a career with near 100% placement?
BSE+WPPF: Where Else Can You Find---

- Unique relationship with potential employers and mentors?
- Advice (opinions?) on everything except calculus and organic chemistry?
- A path for feedback to the school, department and employers?
Wrap Up

• What Did I Miss?
• Your Questions?
• Good luck, stay in touch!