

KANSAS BOARD OF REGENTS



University Engineering Initiative Act

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★ LEADING HIGHER EDUCATION ★



University Engineering Initiative Act

- ★ Legislative Appropriations:
\$1M for FY2012 (2011 HB 2014)
- ★ Enhancement beginning FY2013:
\$3.5M per year for 10 years for each of
the three universities
- ★ Total of \$105M over 10 years



University Engineering Initiative Act

- ★ Requires dollar for dollar match from non-state sources
- ★ Analysis and report of university progress and goal trajectory due to Legislature by 2017 regular session



Legislation Requires Partnerships

...secretary of
Commerce, with board
of regents, universities
and private industries...

... shall develop a plan
to ensure engineering
industry partners find
new talent, designs
and techniques...

... to fuel economic
growth and business
success in Kansas



Goal

A large blue triangle graphic that serves as a background for the two text boxes.

**1365 graduates
annually by 2021**

875 graduates in 2008



Reporting

- ★ Each university provides:
 - Updated scorecard
 - Updated narrative
 - Updated information on connections with employers and students, graduates employed in Kansas and wages, scholarships, internships, research dollars, and gifts



Number of Graduates Needed to Reach 2021 Goal

- ★ **164 additional graduates for each university over baseline of 2008 to meet legislative goals**



KANSAS STATE UNIVERSITY

| Baseline Graduates (2008) | AY 12-13 Graduates | Target Goal Graduates | Gap |
|------------------------------|--------------------|--------------------------|-----|
| 423 | 471 | 587 | 116 |



UNIVERSITY OF KANSAS

| Baseline Graduates (2008) | AY 12-13 Graduates | Target Goal Graduates | Gap |
|------------------------------|--------------------|--------------------------|-----|
| 255 | 338 | 419 | 81 |



WICHITA STATE UNIVERSITY

| Baseline Graduates (2008) | AY 12-13 Graduates | Target Goal Graduates | Gap |
|------------------------------|--------------------|--------------------------|-----|
| 197 | 208 | 361 | 153 |



Enrollments Needed to Meet Goals

| Total Baseline Enrollments (2008) | Total Current Enrollments (AY 12-13) | Enrollments Needed to Meet Goals |
|--------------------------------------|---|-------------------------------------|
| 5935 | 7014 | 9258 |

- ★ Enrollments increase proportionately to increase in graduates
- ★ Graduates increase from 875 to 1365
- ★ Enrollments must increase from 5935 to 9258, increase of 56%



Additional Scorecard Items

- ★ Engineering graduates working in Kansas
- ★ Starting wages for engineering graduates in Kansas
- ★ Scholarship dollars awarded to engineering students
- ★ Number of students with engineering internships



Additional Scorecard Items

- ★ Number of students with engineering internships in Kansas
- ★ Number of Kansas companies offering engineering internships
- ★ Research dollars from corporate, private and other sources
- ★ New endowment gifts



Beechcraft: a Kansas/Wichita legacy



Beechcraft
must reinvent
itself to stay
competitive

- ★ **1932**
Founded by Walter H. and Olive Ann Beech
- ★ **1940's**
Employed 14,000 and produced 7,400 airplanes
- ★ **1980**
Became a subsidiary of Raytheon Company
- ★ **1993**
Acquired Hawker jet line from British Aerospace
- ★ **2007**
Purchased by GS Capital Partners & Onex to become Hawker Beechcraft Corporation
- ★ **2012**
Hawker Beechcraft filed bankruptcy
- ★ **2013**
Emergred from bankruptcy as Beechcraft
 - Total Employment: 8,000
 - Wichita Employment: 3,400



Digital Modeling for Beechcraft Product Line



Engineering
On-Demand Using
an Applied
Learning Model

- Applied learning for WSU students
- **60** student employees working for Beechcraft
- Similar relationships being formed with additional companies
- Admitted applications for engineering program at WSU increased substantially
 - Spring 2014 – **63.6% increase**
 - Fall 2014 – **43.2% increase**



Questions ?