Project title: SLU Project Lead the Way (PLTW)

One sentence project description:

Project Lead the Way is a national initiative by STEM related businesses, secondary, and postsecondary institution to build a bridge that drives more students into STEM related fields by creating national curriculum, high school / college partnerships, articulation agreements for universities and/or credit by exam that articulates to their undergraduate career.

1. One paragraph summary of project:

Background
Saint Louis University has a long standing history of being a leader in the academic world and especially in entrepreneurial endeavors that create pathways for students to complete a postsecondary education. The 1818 Advanced College Credit Program was one of the first of its kind in the nation in bringing high school students the opportunity to earn college credit from SLU at a reduced tuition rate. While the program is rooted in liberal arts there has been an emphasis now in education on STEM fields too. SLU does not offer or offers few options for college credit courses for high schools engineering, medicine, and computer science. Project Lead the Way has been developed as a national agenda and pathways connecting business, high school and universities to get students interested in the STEM field and build pathways.

Proposal
Saint Louis University becomes an official sponsor and partner with Project Lead the Way through the 1818 ACC Program Office and begins to work local high schools in implementing the program for college credit through dual credit and credit by exam.

2. Expected timeline for implementation, including stages or phases if necessary:

1. Stage 1 (Spring 2017): Continued inquiry and partnership with Parks College including attending the national conference to develop a better understanding of program implementation. Identify which pathway to pilot: Biomedical Science, Engineering or Computer Science. Develop articulation agreement with Registrar.

2. Stage 2 (Summer 2017): Become an official member of PLTW the summer identify a pilot school to build the program in. Various school districts have already reached out looking for partnerships.
3. **Stage 3 (AY 17-18):** Begin curriculum instruction and utilize the NACEP accreditation standards to ensure quality assurance of the course delivery and authorization the course is up to SLU’s standards.

4. **Stage 4 (Spring 2018):** Administer credit by exam or the dual credit registration.

5. **Stage 5 (Summer 2018):** Review program and seek expansion or deconstruction.

3. **Positive financial impact on SLU (additional revenue), including business model:**

<table>
<thead>
<tr>
<th>Engineering Pathway</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td>$9,750</td>
<td>$14,625</td>
<td>$19,500</td>
<td>$39,000</td>
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<tr>
<td><strong>Expenses</strong></td>
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<td>- $2,000</td>
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<tr>
<td><strong>Net income</strong></td>
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<td>$36,000</td>
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<td>- $13,375</td>
<td>- $18,250</td>
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<td>- $57,250</td>
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*Revenue: Based on SLU transfer fee of PLTW Common Assessment - Suggesting $195 per exam as it would transfer as a 3.0 credit hour course (65 per credit rate) with no SLU additional investment to help pay for supplies, training, etc.

- Year 1: 50 kids pay to take test @ $195.00 at one school w/ 1 teacher
- Year 2: 75 kids pay to take test @ $195.00 at one school w/ 1-2 teachers
- Year 3: 100 kids pay to take test @ $195.00 at one school w/ 2-3 teachers
- Year 4: 200 kids pay to take test @ $195.00 at one school w/ 3-4 teachers
- Year 5: 300 kids pay to take test @ $195.00 at one school w/ 4-5 teachers

**Expenses:**

- HS Costs from PLTW Customer Support: Recommend we need further investigation
  - Training costs: $2,400 per partner (note: HS typically absorbs fee)
  - Supplies: (note: HS absorbs fee typically)
  - Participation Fee/Resource Access: $3,000 per year per site (note: HS typically paying this fee)

**HS Incentives**

- $250 stipend to instructor
- $250 - $1,000 Investment back into the program for growth enrollment
4. **Positive non-financial impact on SLU:**

The SLU PLTW Program through the 1818 ACC Program Office maximizes the current partnerships and opens up a new discipline of course work for expansion. It creates an opportunity to recruit new schools.

Outside of direct benefits for the already successful 1818 ACC Program and the benefits that program already brings to SLU this help challenge the direct pathway STLCC and Rolla have developed through their own PLTW courses. Schools and families respect the SLU brand name and desire the SLU credit. Parks, Computer Science and Biomedical Science potentially have the opportunity to get direct path access to prospective students to attend SLU. Additionally, it creates direct contact opportunities for SLU faculty to influence high school curriculum and for them to actively build relationships with schools and students.

Finally, SLU will join many other prestigious universities by having its name on the official roster of PLTW Universities locally, regionally, and nationally. The additional exposure elevates the SLU brand and name among high school administration, teachers, students, and their families.

5. **Alignment with Jesuit mission and strategic plan of the University:**

The PLTW Program continues to align with the mission of the 1818 ACC Program and SLU mission in the mutual work of building cooperative relationships on respect, integrity, and mutual collaboration to provide students pathways to affording college.

6. **What’s needed, including budget (i.e. startup capital needed) and other resources (i.e. physical space, personnel, etc.):**

1. **Conference : $1,950 per person**
   a. Registration for 3 days $600
   b. Hotel for 3 days $800
   c. Flight: $400
d. Meals: $150

2. Marketing Materials for brochures /etc. - $1,000 - $2,000

3. Personnel: Long Term if this grows an additional coordinator to deal directly with this program out of the 1818 Office would be needed.

7. **Potential obstacles:**
   - We need more information before we launch the program to better understand.
   - Ensure we are targeting a good market.
   - Buy-in from faculty.

8. **How this project relates to what other universities or programs are doing [OPTIONAL]:**
   - University of Missouri S and T already have a well established program related to direct enrollment gains. Parks is aware and originally reached out to explore building a program like theirs.
   - St. Louis Community College is the main provider of these PLTW course in STL, however many schools are willing to drop them for SLU.

9. **Questions that still need to be answered [OPTIONAL]:**

If you have any questions, please contact David at hakanson@slu.edu or Victoria at whitakervl@slu.edu.

Due date: July 29, 2016