

PROPOSAL

2018 AMERICAN INDUSTRY EXPERIENCE AND INTERNSHIP PROGRAM FOR GYEONGSANG NATIONAL UNIVERSITY (July 2 – July 27, 2018)



**Kansas Technology Center
Pittsburg State University**

**March 2018
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**Pittsburg State University
Pittsburg, KS 66762
U.S.A.**

2018 AMERICAN INDUSTRY EXPERIENCE AND INTERNSHIP PROGRAM FOR GYEONGSANG NATIONAL UNIVERSITY

Purpose

Pittsburg State University (PSU) and Gyeongsang National University (GNU) have a rich history of collaboration and providing unique educational experiences for their students. Experiences have included: the Korean Summer Programs (2001-2005); the GNU PSU Baja SAE Program (2002-2009); the PSU to Baja Korea Project (2006-2007); the Korean Engineering Management Program (2005-2008); the Korea Innovation Engineering Program for GNU (2015-2018); and the American Industry Experience and Internship Program for GNU (2014-2016). These experiences have proven to be mutually beneficial for both institutions. The Korean Four-Week American Industry Internship Experience in the 2018 Summer represents an ongoing commitment to provide GNU another richly rewarding experience.

In July 2018, PSU intends to provide GNU students the unique opportunity to spend four weeks at Pittsburg State University and receive real world experiences in regional industries. In addition to these designated real-world experiences with engineering/management teams at these regional industries, they will also participate in weekly tours to manufacturing and production facilities in Wichita (e.g. Spirit and/or Cessna aircraft industries); Kansas City (e.g., Harley-Davidson; General –Motors Fairfax Plant); and local industries (e.g., Eagle Picher and/or Miller's).

The purpose of this project is to provide a specially designed four week American industry experience and internship program that enables GNU students to learn and develop various skills, and integrate them into their knowledge of engineering/technology/management to become internationally competent engineers/managers/entrepreneurs in their field.

Program Activities and Components

The College of Technology as well as Kelce College of Business at PSU has found that one of the most important and valuable educational experiences is to participate in industry field experiences—industrial tours, cooperative work experiences, internships, and industry-based projects. GNU has also found that their students benefit greatly from having international experiences in the United States and internship experiences in the American industry, as it enhances their future employment opportunities. This collaborative effort by GNU and PSU faculty to provide a four week American industry experience and internship program addresses the needs identified by both institutions. This experience should prove beneficial for Korean graduates obtaining top initial employment positions in Korean industries. Activities are broadly outlined and are described in more detail here:

Regional/local industry tours and rotating “Korean Internship” experiences: Working with local and regional industry partners, PSU will coordinate industrial internship experiences. For example six (6) students and one (1) PSU internship liaison will go to Company A and observe and work with its engineering design team for 3 days. At the same time, other GNU/PSU student team will be working with Companies B, C, and D, respectively. Once the first internship is concluded, the students will rotate. In total, students will complete four (4) three-day rotations during their stay in Pittsburg. The other work days will consists of two (2) day-long industry trips to Wichita (e.g., Cessna and Spirit (formerly Boeing) aircraft

industries) and Kansas City (e.g., Harley-Davidson, GM Fairfax Plant, and Dimensional Innovations). There will also be regional industrial tours and business management sessions and a technical session followed by a tour of the Four State Farm Show (exposition of state-of-the art heavy equipment/ agricultural equipment). Also, there will be given Engineering Management sessions. This should provide GNU students very rich and rewarding American industry internship and industrial opportunities as they get to experience several different types of operations at different types of companies. Probable industry experience and internship program partners include:

- Pitsco Inc.
- Watco
- Able Manufacturing
- Atkinson Industries
- Leisure Time Products
- Pitt Plastics
- Progressive Products
- Millers
- Eagle-Picher and other local companies

Two day trips for industrial tours: Tentatively, this includes, but not limited to companies such as Spirit, Cessna, General Motors, Harley, Davidson, Dimensional Innovations, etc. in Kansas City and Wichita PSU has industry contacts and advisory council members at several companies, who will coordinate VIP tours for PSU guest visitors. Field trip partners include:

- Spirit (former Boeing Facility)
- Cessna
- General Motors
- Harley-Davidson
- Dimensional Innovations
- General Motors
- Others to be determined

Engineering Management Sessions: The following is a sample of workshop experiences designed to enable students to successfully understand, develop, improve, and implement business and management concepts and skills for their practices:

- Quality Management and Six Sigma Operations
- JIT and its related Manufacturing Techniques
- Reengineering
- Productivity, Competitiveness, and Manufacturing Strategy
- Product Design and Process Selection
- Facilities Layout
- Design of Work System
- Supply Chain Management & International Business

Conversational English and written English experiences: GNU participants will engage in speaking English with PSU faculty, students, and English partners. An American student will be assigned to each rotating group throughout the duration of this internship program. The Korean student participants will also maintain a log of daily activities and a journal of their experiences in the United States and their American industry internship and experiences.

Period and Place

It will be a four week program mainly in Pittsburg, Kansas, and its surrounding areas from July 2 through July 27, 2018.

Number of Participants

This program is for up to twelve (12) students from Gyeongsang National University, Jinju, Korea, with two more options in terms of the number of student participations: 10 or 6 student participants.

Program Personnel

1. Administrative Staff

Dr. Choong Y. Lee, Director of Korea Programs, and Dr. John L. Iley, Chair of Technology Studies, will be Co-Director of the program. Both Dr. Lee and Dr. Iley have had lots of experience in international programs and projects for the last 20 years. The experience includes teaching, program administration, curriculum writing, exchange program development, and international student training. In addition, they have extensive experience of administration for various international programs academically as well as professionally.

2. Instructional Staff

The instructional staff will be composed of faculty/staff members from College of Technology and Kansas Technology Center, and other related units at PSU. Especially, Prof. Norman Philipp, a KTC faculty member, will be hired exclusively for this program not only during the four-week program period, but also for the two-week preparation period before the program starts. Prof. Philipp will be assigned to the program as the Program Supervisor/Advisor for the program. Additional tutoring/teaching staff will be hired for the successful operations of the program, including a full-time teaching assistant and three part-time instructors.

3. Support Staff

The support staff will include a secretary, a program assistant, and three (3) program liaisons/conversational English practice partners/assistants who will be assigned to each rotating group throughout the entire period of the program.

Extra Activities

In addition to classes, learning sessions, and field trips, a number of activities will be organized, including visit to Four States Farm Show on July 20, Friday. Furthermore, students will be able to participate in any campus activities offered for the regular students. Also, Korean Student participants may have extra trips or visits to local historic sites and places of interests during those weekends at their own costs.

Certificates

Student participants will be awarded certificates of completion with evaluation of performance at the end of program.

Materials

Student participants will be provided with materials needed for the program, but will be responsible for personal materials needed, such as paper, notebooks, and pens, etc.

Health Insurance

Student participants will either bring proof of health insurance or purchase health insurance through PSU.

Schedule

The program will begin on Monday, July 2, 2018 with an orientation and end on July 27, 2018. The proposed timeline is attached at the end of this proposal with a program calendar.

Airport Pick-up and Return

Student participants will be picked up on June 30, Saturday, 2018, as a group at the **Joplin Airport**, Missouri, and they will be returned there at the time of their departure on July 27, Friday, 2018. If student participants will use other airports, such as the Kansas City International Airport, they should be responsible for all the extra cost to be incurred in the case that PSU is asked to provide pick-up/return service. All necessary arrangements should be made and provided to those GNU participants.

Housing

PSU will make housing arrangements for those student participants' comfortable stay in Pittsburg. In 2018 Summer, on-campus housing will not be available at a reasonable rate during the program period. However, PSU will help find reasonable off-campus housing, which will be close to the PSU campus. Students will be responsible for all meals they wish to eat. Food is still available at the Student Center and other restaurants within walking distance to the university. Also, students will be responsible for meals for all field trips.

Estimated Costs and Expenses

(1) ***Program Instruction and Support*** (including all program expenses and fees): The best estimated cost is as follows based on the group of **12 students** for a 4-week program, including:

• Program Expenses and Fees (including fixed costs & internship arrangements)	\$ 7,400
• Program Administration, Supervision and Support (including faculty & staff compensation)	\$19,000
• Field Trip Expenses (including transportation)	\$ 5,600
• Transportation for the Internship Program including local site visits (for all two teams) (including pick-up and return services from/to the Joplin Airport & daily transportation for the daily regular program)	\$ 2,800
• Supplies & miscellaneous	\$ 1,200

Total	\$36,000 *

****This is the amount that GNU should pay directly to PSU for the exclusively established 4-week American industry experience and internship program with 12 student participants for the 2018 Summer.***

(2) ***Conversational English Practice & Writing Training:*** This program is to provide students a learning environment where Korean students can enjoy conversational English

with their designated practice partners, who are hired for this program as Internship/Conversational English Partners. An American student will be assigned to each rotating group throughout the duration of the American industry internship experience program. The Korean participants will also maintain a log of daily activities and a journal of their experiences in the United States and their American industry internship and experiences:

- Reading and writing
- Listening and speaking
- Fun trips with English tutors/practice partners
- Miscellaneous

All those activities above here and their costs are **included** in the above total cost in (1).

(3) ***Field Trip Costs***: There will be two major field trips during the program period: one for the trip to Wichita and the other one for the trip to Kansas City. PSU will make all necessary arrangements for the field trips. The Korean student participants can learn many important things from a different dimension of experience through those field trips. All costs to be incurred, including transportation, are **included** in the total cost in (1), but except meals during the field trips.

(4) ***Housing and Meals in Pittsburg***: The estimated expense is about \$650/person for the entire period, June 30 through July 27, with sharing a room with two (or maybe three) persons, based on the past program experience and the current housing conditions in Pittsburg. The actual expenses for this item should be paid by each student in addition to the program fees above. This cost is **not** included in the total cost in (1).

(5) ***Others***: Students may have their own fun trips for the weekends during the program period. For more information, see the separately attached sheet. The costs for any extra activities are **not** included in (1).

Additional Notes:

- (1) Any changes or additions to this proposal must be made with the approval of the Director of the program.
- (2) Any additional expenses incurred by GNU students or their chaperone will be the sole responsibility of students or chaperone. In other words, the total costs and expenses of \$36,900 is contingent upon the proposal as originally written. If different off-campus housing and/or flights arriving/departing from Kansas City, MO are selected, the extra costs will be incurred and must be paid separately from indicated above.
- (3) PSU will help GNU students obtain appropriate visas (J-1 or B-1) to enter the U.S.
- (4) The program cost, including program instruction and support fee (including learning materials and fees), conversational and written English training fee and field trip fee, should be paid directly by wire **no later than May 11, 2018**.
- (5) The detailed schedule with description is attached for further information of the program.

Recommendations for the Program
based on the 2014, 2015 and 2016 Summer Program

1. GNU participants should have at least an average grasp of English so they will have a greater opportunity for success in the U.S even though language training is a part of the program.
2. To help the GNU students improve English skills and learn more of the American culture during their stay in Pittsburgh, the following are recommended:
 - a. Stay with English partners as much as possible and have the minimum meal plan with PSU. This will provide for more opportunities to interact with American students and provide more opportunity to use English. Generally speaking, the group that stayed with American students and ate meals in the PSU cafeteria improved the most in terms of English and understanding of American culture.
 - b. Use English only while working in the internship companies as well as other organizations to be visited during the program.
 - c. Meet every day with Dr. Choong Lee, so he can help student participants have a pleasant stay in Pittsburgh with all valuable experience and learnings through the program.
 - d. Maintain a daily journal in English and share it with Dr. Choong Lee and other instructors. Dr. Lee and other instructors can evaluate students' progress especially in their English skills and other professional knowledge.
 - e. Participate actively in all program activities and events to learn more about American operations of business and other related practices during their stay in Pittsburgh and the surrounding areas with the program.
3. Participate in campus events and activities, such as:
 - a. Four State Farm Show on July 20, Friday
 - b. Campus activities, such as international food festival, study abroad exhibition, culture day, and other student meetings.

TENTATIVE SCHEDULE FOR GNU/PSU AMERICAN INDUSTRY INTERNSHIP & COOPERATIVE EXPERIENCE PROJECT

Proposed GNU/PSU Timeline:	Proposal Activity	Time Frame
	1. Submit proposal for the establishment of the Korean (GNU) Four-Week American Industry Internship and Cooperative Experience - 2018	March 2018
	2. PSU proposes PSU decision makers and grant faculty (e.g., Dr. John L. Iley) visit Korea, as guest of GNU to discuss future proposals and other joint projects for future.	May 2018
	3. GNU and PSU receive funding to implement 2018 American Industry Cooperative Experience Project proposal.	Spring 2018
	4. GNU selects 12 students to participate in the Summer 2018 program. Each member continues to develop English speaking and writing skills.	Early Spring 2018
	5. PSU selects faculty member, faculty assistant, and three students to work with Korean (GNU) Four-Week American Industry Internship and Cooperative Experience program, in July 2018.	Spring 2018
	6. Selected faculty member refines schedule for Summer 2018 program and makes necessary arrangements for internships and industry experiences, industrial field trips, etc.	April through Mid-June 2018
	7. GNU students arrive at Joplin (Mo) Regional Airport and picked up by PSU faculty and faculty assistant, and driven to PSU for participation in Summer program	June 30, 2018 (Saturday) <i>(or other date)</i>
	8. Orientation to American Industry Internship Experience program (one-day orientation, including visits to the four participating American industry internship partners, campus orientation, etc.).	July 2, 2018 (Monday)
	9. First three-day American industry internship and experience rotation for each of the two teams.	July 3 & 5-6, 2018

**Proposed GNU/PSU
Timeline:**

Proposal Activity	Time Frame
10. Participate in 4th of July (American holiday) activities.	July 4, 2018 (Wednesday)
11. Day-long industrial field trip to either Wichita (e.g., Bombardier Leerjet and/or Case-New Holland industries and Cosmosphere) or Kansas City (e.g., Harley-Davidson, GM, and/or Dimensional Innovations)	July 9, 2018
12. Second three-day American industry internship and experience rotation for each of the two teams.	July 10-12, 2018
13. Participate in Engineering Project Management program Session #1 , meet with local business/industry leaders, and tour a regional industry.	July 13, 2018
14. Participate in Engineering Project Management program Session #2 , meet with local business/industry leaders, and tour a regional industry.	July 16, 2018
15. Third three-day American industry internship and experience rotation for each of the two teams.	July 17-19, 2018
16. Special Technical Session and Four State Farm Show	July 20, 2018
17. Day-long industrial field trip to either Wichita (e.g., Cessna and/or Case-New Holland industries and Cosmosphere) or Kansas City (e.g., Harley-Davidson, GM, and/or Dimensional Innovations)	July 23, 2018
18. Fourth three-day American industry internship and experience rotation for each of the two teams.	July 24-26, 2016
19. Farewell Dinner and awarding of Korean (GNU) Four-Week American Industry Internship and Cooperative Experience - 2018 Certificates.	July 26, 2016 (Evening)
20. Leave for airport to return to Korea.	July 27, 2016

Proposed July Calendar for
Korean (GNU) Four-Week

American Industry Internship and Cooperative Experience - 2018

Monday	Tuesday	Wednesday	Thursday	Friday
<p>2</p> <p>Students arrive at PSU Sat, 6/30</p> <p>Program Orientation & Industry Visits</p>	<p>3</p> <p>Industry Internship Rotation #1</p>	<p>4</p> <p>4th of July Independence Day Holiday</p>	<p>5</p> <p>Industry Internship Rotation #1</p>	<p>6</p>
<p>9</p> <p>Day-Long Industry Field Trip (Kansas City)</p>	<p>10</p> <p>Industry Internship Rotation #2</p>	<p>11</p> <p>Industry Internship Rotation #2</p>	<p>12</p> <p>Industry Internship Rotation #2</p>	<p>13</p> <p>Engineering Project Management Session #1</p>
<p>16</p> <p>Engineering Project Management Session #2</p>	<p>17</p> <p>Industry Internship Rotation #3</p>	<p>18</p> <p>Industry Internship Rotation #3</p>	<p>19</p> <p>Industry Internship Rotation #3</p>	<p>20</p> <p>Innovation Engineering Workshop Four State Farm Show</p>
<p>23</p> <p>Day-Long Industry Field Trip (Wichita)</p>	<p>24</p> <p>Industry Internship Rotation #4</p>	<p>25</p> <p>Industry Internship Rotation #4</p>	<p>26</p> <p>Industry Internship Rotation #4</p>	<p>27</p> <p>Travel to Airport to Return to Korea</p>
	<p>24</p> <p>Industry Internship Rotation #4</p> <p>Closing Dinner (7/26)</p>			

Appendix: Adjusted Costs for Two Extra Options of Different Number of Participants

Extra Option A: (with 10 student participants from GNU)

(1) ***Program Instruction and Support*** (including all program expenses and fees): The best estimated cost is as follows based on the group of **10 students** for a 4-week program, including:

• Program Expenses and Fees (including fixed costs & internship arrangements)	\$ 7,400
• Program Administration, Supervision and Support (including faculty & staff compensation)	\$19,000
• Field Trip Expenses (including transportation)	\$ 4,800
• Transportation for the Internship Program including local site visits (for all two teams) (including pick-up and return services from/to the Joplin Airport & daily transportation for the daily regular program)	\$ 2,500
• Supplies & miscellaneous	\$ 1,000
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Total	\$34,700 *

****This is the amount that GNU should pay directly to PSU for the exclusively established 4-week American industry experience and internship program with 10 student participants for the 2018 Summer.***

Extra Option B: (with 6 student participants from GNU)

(1) ***Program Instruction and Support*** (including all program expenses and fees): The best estimated cost is as follows based on the group of **6 students** for a 4-week program, including:

• Program Expenses and Fees (including fixed costs & internship arrangements)	\$ 7,400
• Program Administration, Supervision and Support (including faculty & staff compensation)	\$19,000
• Field Trip Expenses (including transportation)	\$ 3,600
• Transportation for the Internship Program including local site visits (for all two teams) (including pick-up and return services from/to the Joplin Airport & daily transportation for the daily regular program)	\$ 1,800
• Supplies & miscellaneous	\$ 600
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Total	\$32,400 *

****This is the amount that GNU should pay directly to PSU for the exclusively established 4-week American industry experience and internship program with 6 student participants for the 2018 Summer.***