

F:MCU, International, KOREA PUSAN National University, Busan and 121 29AA ✓  
MECHANICAL Engineering, ENGR, UMCP  
RE: JOINT DOCTORAL Program



**Agreement to Establish a Joint Doctoral Program  
in Mechanical Engineering  
between  
The University of Maryland, College Park, MD  
The United States of America  
and  
Pusan National University, Busan  
The Republic of Korea**



The University of Maryland (UMD), an agency of the State of Maryland, located in College Park, Maryland, USA, and the Pusan National University, (PNU) located in Busan, Korea, agree to cooperate in a joint doctoral program between the two departments of Mechanical Engineering. This agreement is outlined below.

**I. SCOPE OF THE AGREEMENT**

The contracting parties, being willing to develop and reinforce their scientific and technical collaboration, will collaborate with jointly directed Ph.D. dissertations for doctoral program students in Mechanical Engineering at the University of Maryland.

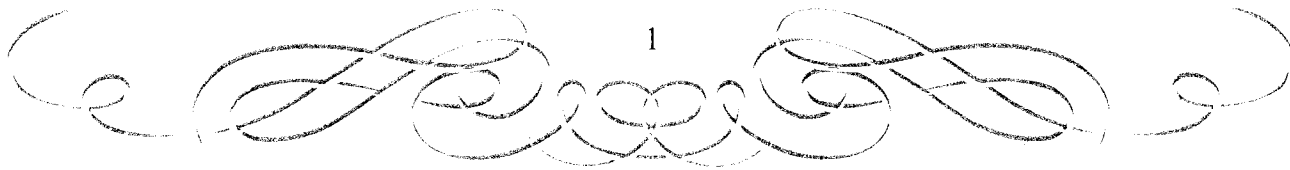
**Dissertation committee**

The supervisory committee is to be selected by the institution partners of the present agreement, and will be equally composed of scientific members from the two countries in conformity with the Graduate Schools of the University of Maryland and the Pusan National University. The committee will be composed of six members, including the dissertation chair and advisor from UMD, co-advisor from PNU, and additional members from each institution. Three members of the committee have to be full members of the UMD Graduate Faculty, of which one will be the committee's chair and one who will be from another Department to serve as the Graduate Dean's representative. The other members of the committee, including those from PNU, must be adjunct or special members of the UM Graduate Faculty, approved and appointed by the UMD Graduate School.

Joint doctoral program students will be supervised by a dissertation advisor from each of the two countries, and the associated faculty will serve as co-advisors on the student's dissertation committee. The makeup of the Dissertation Committee will comply with current UMD Graduate School Policies.

**Financial Support**

UMD will pay tuition and fees through Research Assistantships provided by the UMD Department of Mechanical Engineering. PNU will provide stipends, consistent with the stipend rates offered in the UMD Department of Mechanical Engineering. For the 2011 Academic year, this corresponds to \$24,000 for a twelve-month appointment. A maximum of two students per year will be supported in residence at UMD. PNU will also support the students involved in the joint program while they are at PNU with a monthly stipend of \$900.





### **Curriculum requirements**

The coursework plan of a participating student will be in compliance with the rules and regulations of the Graduate Schools of UMD and PNU and the requirements of the approved programs in Mechanical Engineering at UMD and PNU. Students can take distance delivery courses offered by UMD while staying at PNU but a maximum of 2 distance delivery courses can be used towards a UMD Degree.

### **Identification guarantee**

During a participating student's stay at each institution, the student must be affiliated with the co-advisor's laboratory, and the student can have an identification card from the local institution. Both institutions will keep and manage academic records of the student and provide the student with academic documents including the certificate of enrollment and the transcript of academic records.

### **Dissertation language**

The dissertation will be written in English and will include the following:

- An extended summary in Korean
- As well as a required and traditional abstract written in both languages

The student is required to defend his/her dissertation and present an oral summary in a manner that all committee members have a clear and complete understanding of the research and resulting scholarship.

### **Diploma delivery**

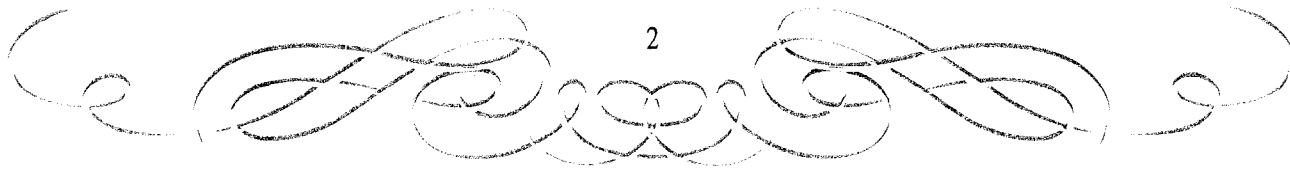
Two separate diplomas will be delivered following each institution's rules and regulations at each institution. Under recommendation of the common supervisory committee, PNU will grant the title of Doctor of Mechanical Engineering at PNU. UMD will grant a Ph.D. in Mechanical Engineering. The transcript will reflect the joint doctoral program between PNU and UMD.

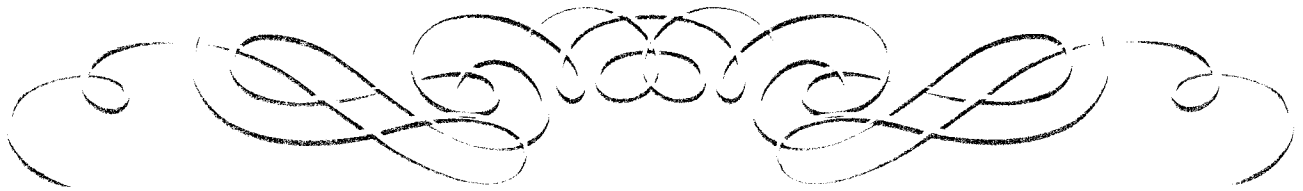
## **II. ADMINISTRATIVE PROCEDURES**

All rules and regulations of the home and the host institution will be followed concerning registration, international student policies.

### **Admission and Registration**

The committee at PNU will have the authority to select candidates in terms of capability of study and research, language and communication skills, and personality. All candidates will be required to meet the admissions criteria of the UMD Graduate School. Final selection of candidates will be determined by the UMD Mechanical Engineering Graduate Faculty and the Dean of the Graduate School. Registration will be authorized by the present signed agreement.





All registered students will be subject to the rules and regulations of the University while at UM, including the UM Code of Student Conduct and the Code of Academic Integrity.

**Final Term Registration**

If the doctoral defense occurs at UMD, UMD final registration rules must be followed. If the doctoral defense occurs at PNU, PNU final registration rules must be followed.

**Insurance coverage**

For the stay in each country, the student must show proof of medical coverage and have a health insurance. During the stay in the United States, the student will similarly need to satisfy the requirements for health insurance of UMD.

**III. ENTRY AND VISA REQUIREMENTS**

Both parties acknowledge that visits by faculty and students from one party to the other shall be subject to the entry and visa regulations of the United States and the Republic of Korea, and shall comply with the regulations and policies of the University of Maryland, College Park and Pusan National University.

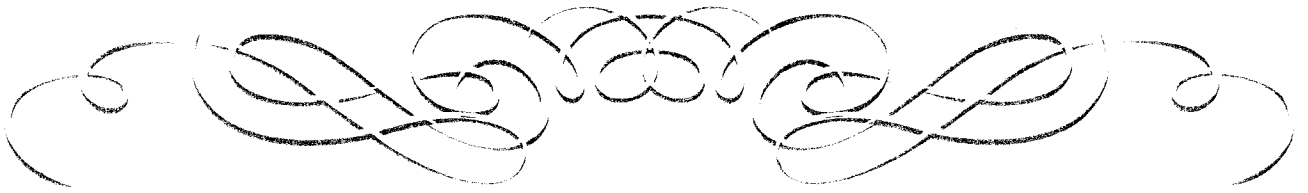
**IV. DISCLOSURE OF RESULTS OF ACADEMIC AND RESEARCH ACTIVITIES**

It is the policy of UMD that instruction, research, and services will be accomplished openly and without prohibitions on the publication and dissemination of the results of academic and research activities. As a result, UMD may not conduct classified or "sensitive but unclassified" work or export controlled work except with the prior written authorization of the UMD President and University System Chancellor.

To assure compliance with UM policy and to protect the interests of both parties, if one party wishes to disclose to the other party information that the disclosing party considers to be proprietary, non-public, confidential information in the course of conducting discussions or performing work under a separate subsidiary research agreement, the parties shall execute a nondisclosure agreement.

The results of the research performed by joint doctoral program students will be available to the two institutions signing the present agreement. The production of the dissertation subject as well as the publication, the use and the protection of the results of the research common to the two institutions hosting the student must be ensured to be in compliance with the procedures specific to each institution and country concerned in this co-advising.





#### **V. EXPORT CONTROL LAWS AND REGULATIONS**

The export control laws and regulations of the United States, including the Export Administration Act and Export Administration Regulations (15 CFR 730 et seq.), the Arms Export Control Act and its implementing regulations, and the Traffic In Arms Regulations (22CFR 120 et seq)("Export Control Laws"), prohibit the disclosure to foreign countries and nationals of foreign countries under certain circumstances of technical data that are controlled under Export Control Laws ("Controlled Information") without first obtaining a license from the appropriate U.S. government agency. Accordingly, the parties acknowledge that the evaluation, selection and funding of RFPs under this MOU must take into account and may be affected by the restriction of these Export Control Laws.

#### **VI. PRINCIPLES OF EQUAL OPPORTUNITY AND NON-DISCRIMINATION**

It is understood that both the University of Maryland, College Park and Pusan National University subscribe to the principle of equal opportunity and do not discriminate on the basis of race, sex, age, ethnicity, religion, or national origin. Both the University of Maryland and Pusan National University shall abide by these principles in the administration of this agreement and neither party shall impose criteria for exchange of scholars or students, which violate principles of nondiscrimination.

#### **VII. AMENDMENTS**

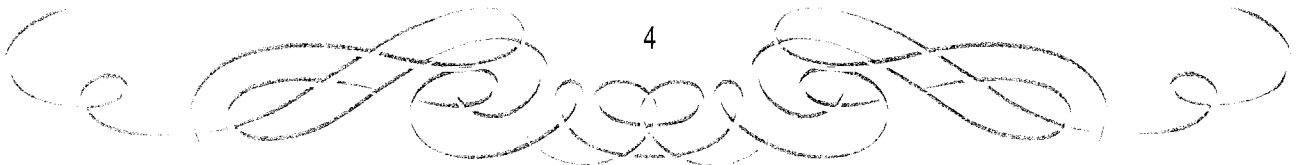
Any amendment or modification in the terms of the present agreement will be proposed in a separate written document signed by the two institutions.

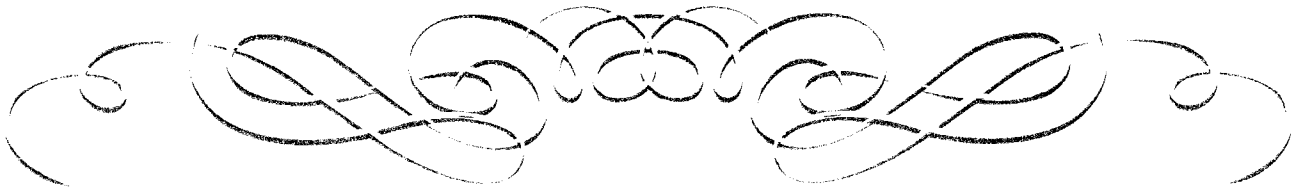
#### **VIII. REVIEW AND RENEWAL**

Both parties shall review the status of the agreement at the end of each five-year period to determine any modifications that might be necessary. The period of validity of this agreement may be extended by mutual consent.

#### **IX. TERMINATION**

Either party may terminate this agreement with written notification, signed by a designated official of the party initiating termination. Such notification must be given at least six months in advance of the effective date of termination.





**SIGNATURES**

K. S. Hwang

Gyu-Seon Hwang  
Dean of the Office of Academic Affairs

Pusan National University  
Busan, Republic of Korea

Date: Oct. 11, 2010

N. Farvardin

Nariman Farvardin  
Senior Vice President for Academic  
Affairs and Provost  
University of Maryland  
College Park, MD 20742, USA

Date: \_\_\_\_\_

**ADDITIONAL SIGNATURES:**

Hak Soo Mok

Hak Soo Mok  
Dean, College of Engineering  
Pusan National University  
Busan, Republic of Korea

Date: Oct. 11, 2010

Darryll Pines

Darryll Pines  
Dean, A. James Clark School of Engineering  
University of Maryland, College Park  
College Park, MD 20742, USA

Date: Oct. 15, 2010

Y. H. Moon

Young-Hoon Moon  
Chair and Brain Korea (BK) 21 Director  
Graduate School of Mechanical Engineering  
Pusan National University  
Jangjeon-Dong  
Geumjeong-Gu  
Busan 609-735  
Republic of Korea

Date: Oct. 11, 2010

B. Balachandran

Bala Balachandran  
Acting Chair  
Department of Mechanical Engineering  
University of Maryland  
College Park  
MD 20742  
USA

Date: Oct. 14, 2010

