**Intel Products Vietnam Grand Challenges Masters Fellowship**

**2017-2018 Fellowship program to study at Arizona State University**

**The Fellowship**

Vietnam is emerging as one of the most dynamic and innovative economies in Southeast Asia. With this growth there are engineering challenges facing Vietnam in the areas of climate, water, environment, security, transportation, and energy. Intel invests at the boundaries of technology to creating amazing experiences for business and society, and every person on Earth. To this end, Intel Products Vietnam in partnership with Arizona State University (ASU) via HEEAP will offer up to 19 Vietnam Grand Challenges Masters Fellowships to Arizona State University for high performing senior undergraduate students who will be completed with their Bachelor of Science degree in Spring 2017

Selected students will take part in a one-year, U.S. education experience at Arizona State University (ASU) in Tempe, Arizona in Fall 2017 while engaging with a mentor within Vietnam. As a component of these master’s programs students will focus on research and project based solutions (including Internet of Things solutions) geared towards developing a smart city, a priority focus for Ho Chi Minh City. The full cost of one full academic year (fall, spring, summer) of tuition and a living stipend will be awarded.

**Possible Degree Programs at ASU**

**Aerospace Engineering, M.S.**

Aerospace engineers invent and design lightweight composite materials and structures, highly efficient propulsion devices and autonomous, intelligent control systems. They may become experts in one or more fields such as aerodynamics, thermodynamics, celestial mechanics, propulsion, guidance and acoustics.

Our faculty and students conduct innovative research in all of the traditional core areas of aerospace engineering with applications to some of society’s most pressing problems in energy, the environment, national defense, security and transportation. State-of-the-art laboratories and computational facilities support the research and educational missions. This program is offered by the School for Engineering of Matter, Transport, and Energy at ASU.

**Chemical Engineering, M.S.**

The chemical engineering program at ASU is devoted to innovative education and discovery, and is recognized nationally among the top 50 chemical engineering programs by U.S. News & World Report. The chemical engineering faculty are committed to fully developing students’ potential by providing a unique and stimulating learning and research environment, exposing students to a diversity of viewpoints and teaching/learning styles, and preparing students to work in teams to solve real-world, multidisciplinary problems. This program is offered by the School for Engineering of Matter, Transport, and Energy at ASU.

**Environmental and Resource Management, MS**

The graduate program provides students with a background in the sciences, engineering, environmental science, natural resources management, environmental health and safety, or other affiliated areas with the regulatory and technical background to mitigate the environmental impact of industrial sources of pollution, ensure compliance with environmental regulations, and manage and preserve natural ecosystems.

The curriculum focuses on areas such as environmental law, air pollution, soils and groundwater contamination, water law and policy, environmental toxicology, hazardous waste management, natural resources management, occupational health and safety, sustainable development, and international environmental laws and policies. This program is offered by the Polytechnic School at ASU.

**Material Science and Engineering, M.S.**

The graduate program in Materials Science and Engineering at ASU is one of the largest in the U.S.  The flexibility of the program structure encourages students to explore topics at the boundaries between traditional disciplines.  There are many research thrusts in materials at ASU that span a wide range of cutting-edge and cross-disciplinary topics including understanding the structure-property relationships of nanomaterials, and applications in energy, security, and sustainability. This graduate program prepares students for professional careers in materials science and engineering and related fields in industry, government and educational institutions. This program is offered by the School for Engineering of Matter, Transport, and Energy at ASU.

**Mechanical Engineering, M.S.**

Faculty and students conduct innovative research in all of the traditional core areas of mechanical engineering with applications to some of society’s most pressing problems in energy, environment, human health and transportation. State-of-the-art laboratories and computational facilities support the research and educational missions.

ASU’s mechanical engineering graduate faculty and students conduct innovative research in all of the traditional core areas of mechanical engineering with applications to some of society’s most pressing problems in energy, environment, human health and transportation. State-of-the-art laboratories and computational facilities support the research and educational missions. This program is offered by the School for Engineering of Matter, Transport, and Energy at ASU.

**Solar Energy Engineering and Commercialization, M.S.**

The objective of the program is to enable graduates to pursue careers in industry, government, or the nonprofit sector that involve solar energy and its utilization. Students will engage with the solar energy industry and/or government policymakers, as part of a required culminating applied research project.  This program is offered by the School for Engineering of Matter, Transport, and Energy at ASU.

**Sustainable Engineering, M.S**

This program teaches about how to integrate complex social, environmental, political and economic factors so that organizations and clients can be delivered environmentally, socially and economically efficient engineering solutions. The program allows students to select different program areas of study: Earth systems engineering and management; Industrial ecology; Energy systems including conservation and alternate energy technologies; Life cycle assessment and other environmental assessment tools; and Green buildings science and construction practices. This program is offered by the School of Sustainable Engineering and the Built Environment at ASU.

**Sustainability Solutions, M.S.**

The Master of Sustainability Solutions (MSUS) is designed to prepare students to apply sustainability principles and approaches to careers in a variety of fields, addressing complex human and environmental challenges. Students with an MSUS will have the knowledge base and skill sets to bring sustainability solutions to corporate, government, and NGO sectors. Beginning with a foundation in sustainability theory and methods, the program allows students to specialize focus areas such as: Policy and Administration; Technology and Society; International Development; Nonprofit Organization; Communication; Entrepreneurship; Law; and Military. This program is offered by the School of Sustainability at ASU.

**Eligibility:**

This fellowship is open to candidates who meet the following minimum criteria:

1. Candidate must: be a senior in high academic standing at the time of nomination by the Engineering Dean or Department Chair/Head
2. Meet ASU graduate admission criteria (evaluated by the submitted materials described in the section below titled Application Materials.)
3. Target Cumulative GPA of 3.0 or higher (on a 4 point scale) or 7.5/10 (on a 10 point scale).
4. Strong English language skills. Required to achieve a minimum score of 80 on the Internet-based Test of English as a Foreign Language (TOEFL) or IELTS 6.5.
5. Received a nomination by a Dean or Department Program Head/or Chair and preferably be serving as the candidate’s mentor or faculty advisor.
6. Able to travel to United States and live for one year to complete program.
7. Strong behavioral skills in teamwork, problem solving, communication, leadership, initiative.
8. Interested in studying in the U.S.
9. Active in community and extra-curricular activities.

**Obligations after completing the master program:**

Upon completing the master program, individuals are expected to immediately return to Vietnam and work for Smart City projects of HCM City government for at least 3 years.

**Application Process**

* Pre-evaluation based on unofficial transcripts, GPA, English Proficiency scores, and letter of intent will be accepted from March-April 14th.
* Online applications must be completed by **May 5th, 2017.** The online application is in this link:

<http://www.asu.edu/gradapp>

**Application materials:** Applicants will need to apply to Arizona State University and will need the following documents to complete the application process:

1. Online Graduate Education application.

2. Application fee (will be waived by ASU).

3. Official GRE score. GRE requirements vary by program. Please check your specific program page, for details.

4. Proof of English language proficiency - required to achieve a minimum score of 80 on the Internet-based Test of English as a Foreign Language (TOEFL). Scores must be dated within two years of the first day of class in the program.

5. Official transcripts from all prior institutions attended.

6. Statement of purpose / personal statement.

7. Resume or curriculum vitae.

8. Three letters of recommendation (hard copies).

**Selection Process:** Candidates will be evaluated on the demonstration of his/her significant academic ability to perform research in the Vietnam Grand Challenges areas of climate, water, computing/IoT, environment/sustainability, security, transportation and energy. In order to participate in the Intel Vietnam Grand Challenges Masters Student Fellowship the applicants must have a proven history of academic excellence in engineering as well as involved in undergraduate research and/or a supervised project. The applicants must successfully complete each of the following stages:

1. Fellowship Prescreening: Initial application documents submitted to local office by **April 14th**, **2017** for initial Fellowship screening. Candidates will then enter an interview process with Intel and the People’s Committee **April 19-26th, 2017**. Qualified and selected candidates will be invited to submit their application to ASU.
2. ASU Admission: final online ASU application and application materials must be submitted to ASU by **May 5th, 2017**. Candidates will be notified of admission decision by **May 31st, 2017**. Applicants who meet eligibility requirements, have submitted a passing TOEFL, IELTS, GRE, are able and willing to travel to Arizona State University for the 2017-2018 academic year, and successfully complete the fellowship interview will be selected for the fellowship (contingent upon receipt of a visa).

IMPORTANT DATES

March 2017 – Information Sessions scheduled at college and university locations throughout Vietnam.

April 14th, 2017- Initial document deadline for prescreening; includes qualifying English proficiency exams.

April 19-26th , 2017- Candidates will be invited to interview with Intel Products Vietnam and Ho Chi Minh City People’s Committee

May 1st , 2017- Up to nineteen candidates approved by Intel Products Vietnam and Ho Chi Minh City People’s Committee will be encouraged to submit their complete application to ASU

May 5th, 2017- Final ASU Application Deadline.

May 31st, 2017 – Admitted students will receive confirmation of acceptance into academic program and fellowship.

August 2017 – Classes begin for Fall semester 2017.

Note: ASU reserves the right to make changes to the Program and deadlines if required.

Please submit completed application packages as well as any additional questions to:

Angela Harguess Huyen Nguyen

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