Application Guidelines for the Third AIIT IT and Design Engineering Solution Contest

The Advanced Institute of Industrial Technology (AIIT) is a public professional graduate school that educates highly skilled professional engineers who can contribute to the activation of industries by capitalizing on their professional knowledge and structured technical expertise. The Master's Degree Program in Information Systems Architecture nurtures professional information architects who can actively participate in the design, development, and management of information systems. The goal of our Master's Degree Program in Innovation for Design and Engineering is to play the central role in the field of design engineering by training the professionals to become *monozukuri* (manufacturing) architects who can lead the development that integrates sensibility and function. We are holding a contest to discover and train the professionals of the future.

Continuing from the previous year, AIIT is sponsoring the IT and Design Engineering Solution Contest that integrates IT technology and *monozukuri* technology.

The contest is open to all students studying at higher educational institutions in Japan, as well as in other Asian countries. Adults are also welcome to participate in the contest. We look forward to receiving entries to the contest.

1. Theme
Work Style Reforms supported by Next-Generation Technology

According to the website of the Cabinet Office, Society 5.0 is defined as "A human-centered society that balances economic advancement with the resolution of social problems by a system that highly integrates cyberspace and physical space (real society)." Society 5.0 was first proposed in the Fifth Science and Technology Basic Plan as a future society to which Japan should aspire. It refers to a new society following the hunting society (Society 1.0), agricultural society (Society 2.0), industrial society (Society 3.0), and information society (Society 4.0). In this way, Japan must make various changes in the way people work in order to create a society the country is aiming for.

For example, we need to find solutions for people to realize the following workstyles:

- A workstyle suited to various lifestyles where people can lead a fulfilling life.
- A workstyle where people have a support system to help them focus on raising children or providing care to family members.
- A workstyle where people can work without being constrained by age, gender, disabilities, and nationality.

If such a society becomes a reality, the modality of labor and economy, such as workstyles and compensation, will also change. As a result, there will be a major change in the nature of families and the structure of society. Society 5.0 is the society where such changes take place, and a system in which cyberspace and the physical space are highly integrated is expected to create the society.

In this contest, we are looking for solution designs of how people should work in the future Society 5.0.

2. Qualifications for Acceptance
(1) JAPAN: A student of a graduate school, university, junior college, technical school (regular or specialized/non-degree course), high school, or vocational school anywhere in Japan.
(2) Outside of Japan: Students of higher education institutions in China, Korea and ASEAN countries with universities that are members of APEN[1].
(3) Professionals who agree with the admission policy of AIIT. [2]
(4) A group of students or professionals who meet the qualifications stated (1) to (3) above.

*1 About APEN (Asia Professional Education Network): This international organization was established under the

guidance of AIIT in 2011 with a goal of developing PBL education programs, the advanced industrial personnel development methods, in university (graduate school) education, and increasing the use of these methods throughout Asia. Today its membership includes universities from 13 countries (Japan, China, Korea, Vietnam, Cambodia, Indonesia, Thailand, Malaysia, Laos, the Philippines, Brunei, Myanmar, and India).

*2 For details, please refer to the AIIT website (https://aiit.ac.jp/english/guide/)

3. How to apply

(1) Work

All work must be unpublished and based on a novel idea, and conform to the theme above.

In addition, please conceive feasible work, which can be commercialized with the technology in near future.

♦ Each person (or group) can only submit one work. A person cannot belong to multiple groups.

(2) Submission materials: Please submit all the items listed from (i) to (v) below:

    (i) Work [Two A3-sized panels (**portrait-oriented**/single-sided)]

        Although the work can be in color or black and white, and in any drawing method (screen copy, sketch, drawing, drawing sheet, CAD drawing, etc.), please be sure to specify the following items from i to iii. The submission of a sheet of paper is not accepted. The work must be in a condition where it can be pasted and propped against a polystyrene board, etc.

        i.   Title and PR copy

        ii.   Summary, action assignment, resolutions to the action assignment, work, merit, etc. The drawing of a prototype (screen copy, CG, illustration, a picture of model, etc.)

        iii.   Please write your name in the upper right section of the back of the panel.

            *Please do not add any information that can be used to identify the applicant, such as name and affiliation within the work (front of the panel.) If such information is added, the work will not be considered for screening.

    (ii) PDF file for (1).

    (iii) (Optional) Video of the work: Movie data to explain (i). The length of the video must be no more than two minutes. Upload it to YouTube with limited access and email the URL. Also, create a DVD and send it to the following address by mail.

    (iv) Application form (Prescribed form by AIIT)

    (v) Summary of Work (Prescribed form by AIIT)

4. Notes

(1) Please submit the items listed in 3-(2) from (i) to (v) above by mail or by bringing to the office within the submission period provided in 5 below. (Items (ii), (iv) and (v) must be in print.)

(2) At the same time, send the items listed in 3-(2) (ii) to (v) above in electronic data via e-mail within the submission period provided in 5 below.

    Send an e-mail to: solution-contest[at]aiit.ac.jp *Change [at] to @.

    *The title must be "Submission documents for the IT and Design Engineering Solution Contest" and specify your affiliation and name in the body text.

(3) Please be sure to use proper damage protection when sending your work.

(4) Submitted work is not returnable.

5. Submission Period

October 21st (Mon), 2019 ～ November 8th (Fri), 2019

6. Evaluation and Announcements

The Judging Committee of AIIT will evaluate all received works, determine the best work, and announce it.

(1) Announcement
   January, 2020　　【TENTATIVE】

(2) Manner of announcement
   ① Contest website.
   ② Notifications will be sent via e-mail to the winners.

(3) Awards
   Grand Prix (one): Certificate worth 300,000 Japanese yen
   AIIT Award (multiple): Certificate worth 50,000 Japanese yen for each winner
   * Withholding tax will be deducted from prize amount.
   Please note that winning entries might appear on the AIIT website and other events.

7. Award Ceremony

The contest award ceremony will be held as follows:
   February, 2020　　【TENTATIVE】

8. Rights

(1) The intellectual assets (design right, patent right, utility model right, right of trademark and copyright) of your work remains yours, and AIIT will not lay claim to your intellectual assets. Therefore, applicants are responsible for protecting their own works as their intellectual assets. Please take all necessary precautions to protect your rights.

(2) AIIT reserves the right to present prizewinning work at AIIT exhibitions, and through AIIT's official website and/or any other media without the permission of the winner. In addition, AIIT may issue press releases on prizewinning work to the mass media.

(3) If AIIT suspects that you have infringed another's intellectual asset or/and if your work is found to have been previously presented, AIIT may rescind your award.

9. Other

AIIT guarantees the confidentiality of your work until the announcement.

10. Applications and Inquiries

Office in charge of AIIT IT and Design Engineering Solution Contest:

Administration Office

Advanced Institute of Industrial Technology

1-10-40 Higashi-Oi Shinagawa-ku, Tokyo 140-0011

Tel: +81-3-3472-7840, Fax: +81-3-3472-2790

http://aiit.ac.jp/english/

Mail: solution-contest[at]aiit.ac.jp　　*Change [at] to @.