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| **VIETNAM NATIONAL UNIVERSITY – HCMC**  |
| **INTERNATIONAL UNIVERSITY** |

**Form 20**

*(Attached the Document No. 5901/BGDĐT-KHTC October 17, 2014 of Ministry of Education and Training)*

**ANNOUNCEMENT**

**Transparent information about education quality of**

**International University, academic year 2014-2015**

**Program: Doctor of Biotechnology**

| **No** | **Content** | **Full-time programs** |
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| **Doctoral** | **Master’s** | **Undergraduate** | **College** |
| I | **Admission conditions** |  | **Qualifications conditions:** Candidates satisfy one of the following conditions:* Group 1: Candidates who have graduated with the Master's degree in Biology and Biotechnology and are eligible for fellowship admission.
* Group 2: Candidates who have graduated with full-time Bachelor degree with at least honors qualification in Biology and Biotechnology (within 12 months from the date of decision for graduation to the date of the application for admission) are required to apply for further fellowship admission.
* Group 3: Candidates graduated with Master's or Bachelor degree (honors qualification) from the majors in the same industry (Medicine, Agriculture, Fisheries, Food Processing Technology Food, Veterinary Medicine, Chemistry and Information Technology ) are required to take the graduate admission examinations and apply for fellowship admission.

**Research proposal:** * The research proposal clearly presents the research direction, topic; overview of relevant researches; aims, tasks and expected results; learning and researching plan during learning period; experiences, knowledge and understanding as well as the preparation of learners in the intended field for research; reasons for the seletion of training organization; the proposed instructor.

**Instructors:** Be accepted to instruct researching by at least 1 scientist with the title of Associate Professor or higher or Doctorate of science; or two scientists with doctorates both agree to instruct (according to the list issued by the school). In case the applicants propose the instructors who are not on this list, it must be approved by the school before applying for admission. **Letters of Recommendation:** Two letters of recommendation from two lecturers or researchers with titles of Professor or Associate Professor or Doctorate of Science or Doctorate in the same industry. Letters of recommendation must contain assessment about candidate's capability, quality, namely: * Morals, especially professional ethics;
* Professional capabilities;
* Working methods;
* Ability to research;
* Teamwork ability;
* Strengths and weaknesses of the candidate;
* Prospects for professional development;
* Other comments and supports, recommending for fellowship.

A certificate of local residence confirms candidate's identity and being not in violaton of law. |  |  |
| II | **Commitment about training facilities for learners** (such as classrooms, facilities, libraries…) |  | At the moment, IU has 2 training premises (one in Thu Duc district and the other in District 1, Ho Chi Minh City)**Classroom quantity**: 74 classrooms, and among them, 8 auditoriums with over 150 seats and 14 auditoriums with more than 90 seats. All classrooms are equipped with air-conditioning system, computers with internet access, projectors. **Laboratories and specialized equipment**: 39 labs equipped with modern specialized equipment, including 6 computer labs, 3 language rooms, 25 labs and 5 rooms for practicing workshop. There are 3 labs of Electrical and Electronics, Information Technology sponsored by Word Bank valuing 42,8 bil dong. Other labs of Biomedical Engineering, Biomedical Education, Basic Biotechnology, Molecular Biotechnology, Applied Biochemistry, Physics and Business Emulation Lab, English Lab are from the investment of IU valuing more 30 billion dong. Especially, the Equipment Laboratory is sponsored by Medical Center (MEDIC) and Eye Hospital in Ho Chi Minh City.**Libraries**: There are currently over 118 thousand sorts of English books, of which one part is from sponsorship of VN2020 Organization, Vietnam Culture Development Society, IVCE-USA Organization, Professor RON REESE, 3A Pharmaceutical Company...**Dormitory**: Using the dormitory system of VNU-HCMC with 85 rooms, total area 3.518m2, averaging 6m2/student. |  |  |
| III | **Faculty** |  | - Tenured lecturers: 164 people (4 Professors, 12 Associate Professors, 67 Doctors of Philosophy, 81 Masters).- Visiting lecturers: the number depends on each semester of the academic year (approximately 35%). |  |  |
| IV | **Supporting activities for learners’ studying and living** |  | - Learning: IU uses the Edusoft web software for checking the training programs for students’ learning plan, course registration, scores...; Blackboard for interaction between faculty and students, teaching assistants.- Activities: if participating in research, students will receive a stipend 3.5 million/month from the school and the support from teaching assistants |  |  |
| V | **Requirements about learners’ studying attitude** |  | - Complying with general training rules of IU. - Complying with training regulations of the Training Program. - Attending all training courses of the program and the instruction of lecturers. - Having high spirit of responsibilty with citizen and community. - Being proactive, active, diligent and creative in studying and working. |  |  |
| VI | **Aquired aims, knowledge, skills, foreign language proficiency**  |  | **Professional knowledge:** * Informatics capability: have the ability to exploit information effectively through the Internet, especially the online database offered by the Vietnam National University of Ho Chi Minh City; use Microsoft Offices well for reports, seminar presentations and simple calculations; use at least 01 common statistical software application for data processing and minimum 1 software application related to genetic engineering or bioinformatics.
* Expertise: The fellow has in-depth knowledge in
* Biochemistry, molecular biology, microbiology
* Genetic engineering (transgenic, gene conversion)
* Tissue and plants, animals' cells culture
* Immunology, synthetic biology and protein engineering

Have the ability to research, innovate or develop the technology in * Medicine (diagnosis by molecular methods, generating pharmaceutical sources and quality assessment),
* Agriculture (crops and livestock breeding, productivity improvement by high-tech),
* Industrial production and environmental cleanup in microbiology biotechnology or quick access to the cutting edge of technologies in the field.

**Skills:** * + Advanced practical skills, understand about safety and the measures to ensure safety at work (can guide and train junior professional staff of the sub-majors that have been trained).
	+ Have the capable of organizing or conducting research independently. Master the skills of writing and publication of scientific research results domestically and abroad.
	+ Good English proficiency in communication, working or studying
	+ Know how to collect, process information and make decisions. Teamwork and work organizing skills.
* English proficiency: TOEFL > 500 at the time of graduation.
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| VII | **Career positions after graduation** |  | The fellows studying for a Doctorate in Biotechnology graduation can work as: * Lecturers, researchers for the institutions, universities or organization;
* Responsible for technical issues, products development for enterprises; involve in the management and organization of production.
* Continue higher studies through the overseas postdoctoral programs.
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 *HCMC, November 25, 2014*

 **Form made by Rector**