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| **PEOPLE’S COMMITTEE**  **HO CHI MINH CITY** | **SOCIALIST REPUBLIC OF VIET NAM**  **Independence – Freedom – Happiness** |

**APPENDIX**

**LIST OF POSITIONS ATTRACTING EXPERTS AND SCIENTISTS IN 2020**

*(in conjunction with Decision No. 4117/QD-UBND dated 09 November 2020 signed by Chairman of Ho Chi Minh City People’s Committee)*

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| **No.** | **Proposed Positions** | **Name of work, project, program or specific profession (ordered or assigned by the City)** | **Job’s description** | **Specific requirements, standards, conditions** | | **Required quantity** | **Tentative duration**  **(months / years)** | **Incentives and support policies** | **Notes** |
| **Qualifications** | **Experiences, scientific achievements or special skills** |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | **DEPARTMENT OF PLANNING AND INVESTMENT** | | | |  |  |  |  |  |
| 1 | Consultant  (Urban planning  and  development) | - Coordinate in matters with regards to City Urban Planning.  - Coordinate in solving difficulties and problems in the process of elaborating, appraising and approving the city planning.  - Give comments on the contents of planning project for the consultant to complete the City Planning.  *(according to Decision No. 3746/QD-UBND dated 04 September 2019 of Ho Chi Minh City People’s Committee on city planning for 2021-2030 period)* | - Participate in a working group to advise, select the Consultancy unit, organize researches in accordance with the formulation on City Planning.  - Plan and formulate policies for social-economic development. | Master/ Doctorate degree (in Economic Development, Public Finance, Public Policy) | At least 05 years of experience in Economic Development and Public Policy. Experienced as a project manager and  knowledgeable about the planning of Ho Chi Minh City | **1** | **3 years** | Initial support:  100.000.000 VND  (Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND) |  |
|  | **MANAGEMENT BOARD OF AGRICULTURAL HI-TECH PARK, HO CHI MINH CITY, VIET NAM** | | | | | |  |  |  |
| 2 | Consultant in designing fast fermentation equipment system | Research, design and manufacture fast fermenter at high temperatures to handle organic agricultural and fishery waste for recycled agriculture.  *(according to Hi-tech agricultural development program for the city in the 2016-2020 period, with a vision to 2025, by Decision No. 6150/QD-UBND dated 24 November 2016 of Ho Chi Minh City People’s Committee)* | - Do surveys and advise the design of equipment system for fast fermentation at high temperatures to handle organic waste for recycled agriculture.  - Technical requirements on equipment and products must meet the following criteria:  + Equipment can handle many sources of organic by-product materials such as seafood, organic agricultural waste.  + Pilot-scale equipment with a material handling capacity of at least 100 liters (equivalent to approx 80 kg / batch) being used at the temperature above 200°C, using thermo-resistive heat technology, using microorganisms thermophilic organisms, microorganisms capable of operating at the temperature ranging from 80 to 90°C, with fermentation time from 8 to 12 hours / batch. | Doctorate degree in mechanical engineer | **Locally Vietnamese expert**.  At least 10 years of experience in designing and manufacturing machines.  Experienced as a manager of at least 01 scientific design or research task which has been accepted at provincial or industrial level; being  member of at least one science and technology committee at provincial or higher level. | **1** | **06 months** | Initial support: VND 100,000,000  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND |  |
| 3 | Consultant in selecting varieties and cultivation processes with high-tech method | - Advise on selecting vegetable varieties in the direction of heat and salinity tolerance.  - Advise on the high-tech strawberry cultivation process in tropical conditions. (*according to Decision No. 6150/QD-UBND)* | - Introduce at least 3 leafy vegetables for testing of heat and salinity tolerance conditions.  - Advise on testing and building the process to plant at least 2 strawberry varieties using hi-tech farming model in Ho Chi Minh City. | Doctorate degree in plant genetic diversity and plant breeding | **Foreign expert.**  At least 10 years of research experience in plant genetic diversity and plant breeding with plant varieties in the tropics.  Experience in working with developing countries, joining scientific associations in countries in the Region.  Able to work in international environment, especially in countries with advanced production technologies. | **1** | **06 months** | Initial support: VND 100,000,000  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND | **Foreign experts.** |
| 4 | Consultant in water quality control in the field of aquaculture | To advise on water quality control in aquaculture at Can Gio Agricultural High-tech Park (*Implementing the investment project in relation to the Can Gio Fishery Agricultural Hi-tech Park according to Decision No. 223/QD-SNN dated 20 June 2020 of the Department of Agriculture and Rural Development)* | Report assessment on water supply capacity, water quality control; assessment on the ability of handling and ensuring the output wastewater quality for research, aquaculture activities of the Can Gio Agricultural High-tech Park; propose solutions when problems occur. | Doctorate degree in aquaculture or environmental management | **Vietnamese expert.**  At least 15 years of experience in aquaculture, brackish or salt water environment; understand about technologies applied to global aquaculture;  Managed at least 01 scientific research at provincial-level that has been approved;  Was member of at least one provincial or higher level science and technology committee. | **1** | **06 months** | Initial support: VND 100,000,000  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND |  |
|  | **BOARD OF MANAGEMENT OF SAIGON HI-TECH PARK, HO CHI MINH CITY, VIET NAM** | | | | | |  |  |  |
| 5 | Consultant in building and developing the training and technology transfer center | Establishment and development project of Vietnam – Japan Training and Technology Transfer Center (VJTC) of the Board of Management of Saigon Hi-Tech Park. | - Establish and further develop the Vietnam – Japan Center, which is currently the Vietnam – Japan Training and Technology Transfer Center.  - Establish and develop the Vietnam – Korea Center with the goal of building the Vietnam – Korea Training and Technology Transfer Center in 2020 which should be further developed in the coming time.  - Develop 10 high quality training programs in Robotics, Automation and Precision Engineering for Vietnamese enterprises.  - Train and provide skilled labors (about 30 technicians) for enterprises in and outside of SHTP.  - Promote and support the technology transfer from Japanese and Korean enterprises to Vietnamese counterparts to participate in the supply chains of Japanese and Korean enterprises as well as the global ones. | Doctorate or equivalent,  specialized in Micro-electronics - Information Technology – Telecommuni-cations; Precision mechanics - Automation; Biotechnology in pharmaceuticals and environment; New materials - New energy – Nanotechnology). | At least 10 years of experience in researching and teaching.  At least 10 years of experience in working for enterprises.  Proficient in at least 01 to 02 foreign languages.  Extensive experience and close relationships with international partners, especially Japanese and Korean ones. | **2** | 03 years | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 6 | Consultant in effective management and operation of the Design House | The project of "Effective operation and exploitation of the Design House" under the Circuit Industry Development Program of Ho Chi Minh City for the period of 2017-2020, with vision to 2030  (*according to Decision No. 4022/QD-UBND dated 28 July 2017 of HCMC People’s Committee)* | - Provide more advices on the coming Design House project.  - Manage and operate effectively the Design House.  - Build five specific IC design training programs which help maximizing the functions of the Design House.  - Train and provide of skilled labors in IC design and manufacturing for the IC enterprises of HCMC (about 30 technicians)  - Promote and support the transfers of IC manufacturing technology from Japanese and Korean enterprises to Vietnamese ones. | Doctorate or equivalent,  specialized in Micro-electronics - Information Technology – Telecommuni-cations; Precision mechanics - Automation; Biotechnology in pharmaceuticals and environment; New materials - New energy – Nanotechnology). | - At least 10 years of experience in researching, teaching and product developing in IC and semiconductor.  - Proficient in at least 01 to 02 foreign languages. | **2** | 03 years | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 7 | Develop new materials (Nano) | Collaborative projects with Australia government proposed by Ho Chi Minh City’s Department of Science and Technology referred to Report No. 1866/BC-SKHCN dated 28 August 2019 (*according to Decision No. 1519/QD-UBND dated 31 March 2016 of HCMC People’s Committee on Direction, Goal and Task of Science and Technology in the period of 2016-2020)* | - Advise and develop Nano-material technology to apply on food, biology and bio-medical.  - Propose and implement collaborative project with international institutes, universities and research centers in relation to Nano technology.  - Propose implementation plan for tasks related to Nano technology of R&D Labs in 2021. | Doctorate degree and above specialized in materials science | At least 8 years of experience in materials science.  - Experience in researching, working and teaching materials science in 3 (or more) international research centers, institutes or universities or being group leader at international institutes, universities or research centers in relation to materials science. | **2** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 8 | Microelectromechanical systems (MEMS) | IC industry development program of Ho Chi Minh City in 2017-2020 (*according to Decision No. 4022/QD-UBND dated 28 July 2017 of HCMC People’s Committee)* | Participate in implementation of scientific and technological tasks as follows:   * The annual training course in designing and producing MEMS sensor for scientists, lecturers at universities, institutes and enterprises in 2020 (as defined in the functions and duties of R&D Labs in 2020): propose implementation plan and take part in teaching. * Organise international conference on MEMS and participate MEMS Forum 2020 (as defined in the functional duties of R&D Labs in 2020): act as Chairman of program committee; contact and invite international speakers. * Operate and maintain equipment in semiconductor labs to fabricate MEMS inclinometer sensor (as defined in the functional duties of R&D Labs in 2020): propose structure of sensor; build fabrication process and advise on technology to implement this process. * Calculate and simulate bar structure design MEMS beam resonators in gaseous conditions, rough bar’s surface conditions; atmospheric temperature and pressure intended for application in environmental gas sensor (as defined in the functional duties of R&D Labs in 2020): propose structures and explain obtained results; support to write scientific papers. * Research and fabricate pH sensor by MEMS technology “Research, design and fabricate prototype components for pH sensor to apply in automatic water monitoring system” (Department-level topic): Propose structure, fabrication process and suggest international partners for topic implementation. * Propose implementation plan for functional duties related to MEMS technology of R&D Labs in 2021. | Master degree and above specialized in MEMS | At least 10 years of experience in MEMS | **2** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 9 | Consulting on building the Scheme of upgrading Saigon Hi-tech Park Incubation Center into Saigon Hi-tech Park Innovation Center | - Consult on building the Scheme of upgrading Saigon Hi-tech Park Incubation Center into Saigon Hi-tech Park Innovation Center  - Connect the cooperation in business incubation and product commercialization between Vietnamese and international enterprises. | - Consult in building the Scheme of upgrading Saigon Hi-tech Park Incubation Center into the Saigon Hi-tech Park Innovation Center.  - Connect the cooperation in business incubation and product commercialization between Vietnamese and international enterprises.  - Establish the Scheme of upgrading Saigon Hi-tech Park Incubation Center into the Saigon Hi-tech Park Innovation Center.  - Connect at least 02 international partners annually to cooperate with Saigon Hi-tech Park Incubation Center in business incubation.  - Connect with partners for at least 05 startups at Saigon Hi-tech Park Incubation Center to commercialize their products in Vietnam and internationally.  - Give advice to startups at Saigon Hi-tech Park Incubation Center. | Master degree and above specialized in economics and engineering | Experience in establishing Innovation Centers in the world.  At least 05 years of experience in startup and innovation activities. | **1** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
|  | **INSTITUTE FOR COMPUTATIONAL SCIENCE AND TECHNOLOGY** | | | | |  |  |  |  |
| 10 | Head of Life science laboratory | Scientific and technological research tasks: “Interaction of beta amyloid peptides with lipid membrane and copper ions: computer simulation” and “Oriented molecular dynamics: multidirectional dragging at low speeds”  *(List of Scientific and technological research tasks in 2018 (2nd phase)* *according to Decision No. 1398/QD-SKHCN dated 21 December 2018 of the Department of Science and Technology and List of Scientific and technological research tasks in 2019 (1st phase)* *according to Decision No. 858/QD-SKHCN dated 18 September 2019 of the Department of Science and Technology)* | * Implement scientific and technological research tasks: “Interaction of beta amyloid peptides with lipid membrane and copper ions: computer simulation” and scientific and the technological research task under List 858: “Oriented molecular dynamics: multidirectional dragging at low speeds”; * Manage officers, researchers of Life Science Laboratory. * Implement scientific research topics, technology development projects; train and develop labors in life science, biomedical computation and pharmaceutical design fields. * Promote international cooperation, attract overseas Vietnamese and foreigner experts, scientists to research and train at the Institute. | Doctorate degree in biomedical physics, computational biology and bio-technology | * Have researches published in ISI journals in Q1, Q2 categories. * At least 5 years of experience in training and scientific research. * At least 5 years of management experience. | **01** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 11 | Head of Computational Chemistry and Nano materials Laboratory | Scientific and technological research tasks: "Theoretical design of organic materials and nonmetallic antagonistic electrodes for solar cells" and "Geometrical structure and bonding characteristics of a group of boron atoms doped with multiple heteroatoms"  *(List of Scientific and technological research tasks in 2018 (2nd phase)* *according to Decision No. 1398/QD-SKHCN dated 21 December 2018 of the Department of Science and Technology)* | * Implement scientific and technological research tasks: "Theoretical design of organic materials and nonmetallic antagonistic electrodes for solar cells" and "Geometrical structure and bonding characteristics of a group of boron atoms doped with multiple heteroatoms". * Manage officers, researchers of Computational Chemistry and Nano Materials Laboratory. * Implement scientific research topics, technology development projects; train and develop labors in Computational Chemistry, Nano Materials and Chemical Technology fields. * Promote international cooperation, attract overseas Vietnamese and foreigner experts, scientists to research and train at Institute. | Doctorate degree in Computational Chemistry, Chemical Technology | * Have researches published in ISI journals in Q1, Q2 categories. * At least 5 years of experience in training and scientific research. * At least 5 years of management experience. | **01** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 12 | Head of Math  Technology and Applications Laboratory | Scientific and technological research tasks: “Construction of Nonconvex Optimization Algorithms for Next Generation Wireless Networks”  *(List of Scientific and technological research tasks in 2018 (2nd phase)* *according to Decision No. 1398/QD-SKHCN dated 21 December 2018 of the Department of Science and Technology)* | - Implement scientific and technological research tasks: “Construction of Nonconvex Optimization Algorithms for Next Generation Wireless Networks”.  - Manage officers and researchers of Math  Technology and Applications Laboratory;  - Perform scientific research and technology development projects; train and develop labors in Applied mathematics;  - Promote international cooperation, attract overseas Vietnamese and international experts and scientists to participate in research and training at the Institute. | Doctorate degree in Mathematics or Applied Mathematics | * Have researches published in ISI journals in Q1, Q2 categories. * At least 5 years of experience in training and scientific research. * At least 5 years of management experience. | **01** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 13 | Head of Environmental Science Laboratory | Scientific and technological research tasks: “Developing an integrated mode framework for surface water resources assessment based on the water – energy – food nexus approach (WEF)” *(List of Scientific and technological research tasks in 2019 (1st phase)* *according to Decision No. 858/QD-SKHCN dated 18 September 2019 of the Department of Science and Technology)* | Deploy research projects in science and technology: “Developing an integrated mode framework for surface water resources assessment based on the water – energy – food nexus approach (WEF”.  - Manage the activities of officers and researchers of the Environmental Science Laboratory;  - Perform scientific research and technology development projects; train and develop labors in Environmental Science and Engineering;  - Promote international cooperation, attract overseas Vietnamese and international experts and scientists to participate in research and training at the Institute. | Doctorate degree in environmental science or computational engineering. | * Have researches published in ISI journals in Q1, Q2 categories. * At least 5 years of experience in training and scientific research. * At least 5 years of management experience. | **01** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |
| 14 | Head of Information and Computational Infrastructure Laboratory | Scientific and technological research tasks: “Establish a software system to support scientific chemistry and discover new treatment applications for drugs of natural origin in Vietnam”  *(List of Scientific and technological research tasks in 2019 (1st phase)* *according to Decision No. 858/QD-SKHCN dated 18 September 2019 of the Department of Science and Technology)* | * Deploy scientific and technological research tasks: “Establish a software system to support scientific chemistry and discover new treatment applications for drugs of natural origin in Vietnam”. * Manage the activities of officers and researchers of the Information and Computational Infrastructure Laboratory;   - Perform scientific research and technology development projects; train and develop labors in Information Technology, Data Science or Applied Mathematics;  - Promote international cooperation, attract overseas Vietnamese and international experts and scientists to participate in research and training at the Institute. | Doctorate degree in Information Technology, Data Science or Applied Mathematics | * Have researches published in ISI journals in Q1, Q2 categories. * At least 5 years of experience in training and scientific research. * At least 5 years of management experience. | **01** | **2 years** | Initial support: 100,000,000 VND  Monthly salary as prescribed in  Decision No. 17/2019/QD-UBND.  1% of each research project expenses as encouragement allowance. |  |

**HO CHI MINH CITY PEOPLE’S COMMITTEE**