## Recruitment of Master and Ph.D course Students (Chonnam National University, Gwangju, South Korea)

| Name   |   | CHOI, Jong-il   |       |
|--|---|---|-------|
| E-mail Address   |   | choiji01@jnu.ac.kr  |       |
| Office Telephone Number  |   | +82-62-530-1846   |       |
| ☐ Department and   | Research Field  | d   |       |
| Department   |   | of Biotechnology and Bioengineering                           |       |
|  |   | inary Program of Bioenergy and Biomaterials                   |       |
| Field of Study/Major   |   |   |       |
| 1. Development of re-<br>biology) approach   | combinant stra  | ins (bacteria and microalgae) using metabolic engineering (sy | stems |
| - DNA cloning  |   |   |       |
| - Proteomics, Geno   | omics   |   |       |
|  |   |   |       |
|  |   |   |       |
| 2. Modification of bio   | molecules for (   | enhanced biological activities                                |       |
| Modification of bio     in vitro assay   | molecules for (   | enhanced biological activities                                |       |
| - <i>in vitro</i> assay  |   |   |       |
| - <i>in vitro</i> assay  Details on the Re   | search Assista  | antship and Support   |       |
| - <i>in vitro</i> assay  | search Assista  | antship and Support   |       |
| - <i>in vitro</i> assay  Details on the Re   | search Assista  | antship and Support  US dollar)                               |       |
| - in vitro assay  Details on the Re Assistantship Allowanc Master course   | esearch Assista   | antship and Support  US dollar)  US \$                        |       |
| - in vitro assay  Details on the Re Assistantship Allowanc Master course (combined MS/Ph.D)  | e per month (l  | antship and Support  US dollar)  US \$                        |       |
| - in vitro assay  Details on the Re Assistantship Allowanc Master course (combined MS/Ph.D)  Ph.D course   | esearch Assista<br>e per month (1<br>800 ~ 900 1<br>900 ~ 1100  | antship and Support  US dollar)  US \$  US \$                 |       |
| - in vitro assay  Details on the Re Assistantship Allowance Master course (combined MS/Ph.D)  Ph.D course  Extra Benefits  Incentive for the p   | e per month (l<br>800 ~ 900 l<br>900 ~ 1100<br>ublication of re | antship and Support  US dollar)  US \$  US \$                 | and   |
| - in vitro assay  Details on the Re Assistantship Allowance Master course (combined MS/Ph.D)  Ph.D course  Extra Benefits  Incentive for the poor of t | e per month (l<br>800 ~ 900 l<br>900 ~ 1100                     | antship and Support  US dollar)  US \$  US \$  esearch paper  | and   |

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| KIM, Tae Wan   Chekimtw@jnu.ac.kr   Chekimtw@jnu.  | Professor's Conta   | - Details   | VINA Too Mon  |  |
|---|---|---|---|--|
| Department and Research Field  Department  Development  Development  Development  Development  Development  Design  Design  Details  D |   |   |   |  |
| Department and Research Field  - Department - Department of Biotechnology and Bioengineering - Interdisciplinary Program of Bioenergy and Biomaterials  Field of Study/Major  ✓ Microbial fermentation process development and optimization - Development of high-cell-density cultivation technologies - Optimization of medium & process parameters to maximize the productivity of bio-products such as biochemical, bioenergy, biopolymer and recombinant proteins - Design of bio-reactors efficient in transferring gaseous substrates such as CO, CO₂ and CH₄ into a liquid medium - Development of cell immobilization technologies & immobilized-cell cultivation systems  Details on the Research Assistantship and Support  Assistantship Allowance per month (US dollar)  Master course (combined MS/Ph.D)  Ph.D course  900 ~ 1200 US \$  Extra Benefits  O Incentive for the publication of research paper  O Supporting the expenses for the presentation at international conference (traveling fee and registration)   |   |   | <u> </u>  |  |
| Pepartment  - Department of Biotechnology and Bioengineering - Interdisciplinary Program of Bioenergy and Biomaterials  Field of Study/Major  ✓ Microbial fermentation process development and optimization - Development of high-cell-density cultivation technologies - Optimization of medium & process parameters to maximize the productivity of bio-products such as biochemical, bioenergy, biopolymer and recombinant proteins - Design of bio-reactors efficient in transferring gaseous substrates such as CO, CO₂ and CH₄ into a liquid medium - Development of cell immobilization technologies & immobilized-cell cultivation systems  Details on the Research Assistantship and Support  Assistantship Allowance per month (US dollar)  Master course (combined MS/Ph.D)  Ph.D course  900 ~ 1200 US \$  Extra Benefits  O Incentive for the publication of research paper  O Supporting the expenses for the presentation at international conference (traveling fee and registration)   |   |   |   |  |
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| <ul> <li>✓ Microbial fermentation process development and optimization         <ul> <li>Development of high-cell-density cultivation technologies</li> <li>Optimization of medium &amp; process parameters to maximize the productivity of bio-products such as biochemical, bioenergy, biopolymer and recombinant proteins</li> <li>Design of bio-reactors efficient in transferring gaseous substrates such as CO, CO₂ and CH₄ into a liquid medium</li> <li>Development of cell immobilization technologies &amp; immobilized-cell cultivation systems</li> </ul> </li> <li>Details on the Research Assistantship and Support</li> <li>Assistantship Allowance per month (US dollar)         <ul> <li>Master course (combined MS/Ph.D)</li> <li>Ph.D course</li> <li>900 ~ 1200 US \$</li> </ul> </li> <li>Extra Benefits         <ul> <li>Incentive for the publication of research paper</li> <li>Supporting the expenses for the presentation at international conference (traveling fee and registration)</li> </ul> </li> </ul>   | Department  |   |   |  |
| - Development of high-cell-density cultivation technologies  - Optimization of medium & process parameters to maximize the productivity of bio-products such as biochemical, bioenergy, biopolymer and recombinant proteins  - Design of bio-reactors efficient in transferring gaseous substrates such as CO, CO <sub>2</sub> and CH <sub>4</sub> into a liquid medium  - Development of cell immobilization technologies & immobilized-cell cultivation systems    Details on the Research Assistantship and Support    Assistantship Allowance per month (US dollar)    Master course (combined MS/Ph.D)   800 ~ 900 US \$   Ph.D course   900 ~ 1200 US \$   Extra Benefits   Concentive for the publication of research paper   Concentive for the publication of research paper   Concentive for the publication of the presentation at international conference (traveling fee and registration)   | Field of Study/Major  |   |   |  |
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| as biochemical, bioenergy, biopolymer and recombinant proteins  - Design of bio-reactors efficient in transferring gaseous substrates such as CO, CO <sub>2</sub> and CH <sub>4</sub> into a liquid medium  - Development of cell immobilization technologies & immobilized-cell cultivation systems    Details on the Research Assistantship and Support    Assistantship Allowance per month (US dollar)    Master course (combined MS/Ph.D)   800 ~ 900 US \$    Ph.D course   900 ~ 1200 US \$    Extra Benefits   O Incentive for the publication of research paper   O Supporting the expenses for the presentation at international conference (traveling fee and registration)  | - Development of  | high-cell-densit  | ty cultivation technologies   |  |
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| Assistantship Allowance per month (US dollar)  Master course (combined MS/Ph.D)  Ph.D course  900 ~ 1200 US \$  Extra Benefits  Incentive for the publication of research paper  Supporting the expenses for the presentation at international conference (traveling fee and registration)  | '   |   |   |  |
| Master course (combined MS/Ph.D)  Ph.D course  900 ~ 1200 US \$  Extra Benefits  Incentive for the publication of research paper  Supporting the expenses for the presentation at international conference (traveling fee and registration)   | ·   |   | tion technologies & immobilized-cell cultivation systems              |  |
| (combined MS/Ph.D)  Ph.D course  900 ~ 1200 US \$  Extra Benefits  Incentive for the publication of research paper  Supporting the expenses for the presentation at international conference (traveling fee and registration)   | - Development of  | cell immobiliza   |   |  |
| Extra Benefits  O Incentive for the publication of research paper O Supporting the expenses for the presentation at international conference (traveling fee and registration)   | - Development of  Details on the Re   | cell immobiliza   | antship and Support   |  |
| <ul> <li>Incentive for the publication of research paper</li> <li>Supporting the expenses for the presentation at international conference (traveling fee and registration)</li> </ul>  | - Development of  Details on the Re  Assistantship Allowand  Master course  | cell immobiliza<br>esearch Assista<br>e per month (l        | antship and Support  US dollar)                                       |  |
| O Supporting the expenses for the presentation at international conference (traveling fee and registration)   | - Development of  Details on the Re  Assistantship Allowand  Master course (combined MS/Ph.D)   | esearch Assistate per month (l                              | antship and Support  US dollar)  US \$                                |  |
| registration)   | - Development of  Details on the Re  Assistantship Allowand  Master course (combined MS/Ph.D)  Ph.D course  | esearch Assistate per month (l                              | antship and Support  US dollar)  US \$                                |  |
| Remarks   | - Development of  Details on the Re  Assistantship Allowand  Master course (combined MS/Ph.D)  Ph.D course  Extra Benefits  | esearch Assistate per month (I<br>800 ~ 900 I<br>900 ~ 1200 | antship and Support  US dollar)  US \$  US \$                         |  |
|   | - Development of  Details on the Re  Assistantship Allowand  Master course (combined MS/Ph.D)  Ph.D course  Extra Benefits  Incentive for the properties of | esearch Assistate per month (I 800 ~ 900 I 900 ~ 1200       | antship and Support  US dollar)  US \$  US \$  esearch paper          |  |
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| 7   |   |  |
| _ Department and  |   |  |
| Department  | - Department of Biotechnology and Bioengineering  |  |
| Field of Chich /Main  | - Interdisciplinary Program of Bioenergy and Biomaterials   |  |
| Field of Study/Major  |   |  |
| J   | ring for the production of biofuel and chemicals  |  |
| •   | platform strain for utilization of sustainable resources  |  |
|   | opolymer and monomer  |  |
|   |   |  |
| 2. Application of cell  | surface displayed enzymes   |  |
|   | surface displayed enzymes ne chemicals via biotransformation  |  |
|   | ne chemicals via biotransformation  |  |
| - Production of fir - Surface modifica  | ne chemicals via biotransformation  |  |
| - Production of fir - Surface modifica  Details on the Re   | ne chemicals via biotransformation<br>tion of bacteria  |  |
| - Production of fir - Surface modifica  Details on the Re   | ne chemicals via biotransformation tion of bacteria esearch Assistantship and Support   |  |
| - Production of fir - Surface modification  Details on the Real Assistantship Allowand Master course  | esearch Assistantship and Support  ce per month (US dollar)   |  |
| - Production of fir - Surface modifica  Details on the Re Assistantship Allowand Master course (combined MS/Ph.D)   | ne chemicals via biotransformation tion of bacteria  esearch Assistantship and Support  ce per month (US dollar)  800 ~ 1000 US \$                    |  |
| - Production of fir - Surface modifica  Details on the Re Assistantship Allowand Master course (combined MS/Ph.D)  Ph.D course  Extra Benefits                      | ne chemicals via biotransformation tion of bacteria  esearch Assistantship and Support  ce per month (US dollar)  800 ~ 1000 US \$                    |  |
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