**奧地利維也納－自然資源及應用生命科學大學BOKU-實習計畫**

**開放科系：**

1. Dept.　Sustainable Agricultural Systems
2. Dept. Forest and Soil Science
3. Dept.　Landscape, Spatial and Infrastructure Sciences
4. Dept.　Corp Science

**說明：**

-實習期間**不**提供薪資,需自付住宿,機票,膳食等個人開銷

-申請需繳交個人簡歷(CV),動機信

<https://boku.ac.at/international/themen/international-students-coming-to-boku/internships-incomings>

* **Dept.　Sustainable Agricultural Systems**

實習時間：約5~6個月

實習內容：見下方說明

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **編號** | **組別** | **名額** | **地點** | **申請人資格** | **聯絡人** |
| **(1)** | **Biogas Group** | 1 | Tulln an der Donau (Lower Austria) | 1. 相關背景
2. 至少須完成五個學期的學業
3. 具備獨立作業及負責待度
4. 對研究主題有興趣且適應團體
5. 做事精確,值得信任且積極學習
 | waltraud.koelbl@boku.ac.atmichaela.buertlmair@boku.ac.at |
| **(2)** | **Agricultural****Life Cycle Assessment****(LCA) Group** | 2 | 地點不定 |
| **(3)** | **Agro-mechatronics Group** | 1 | Groß Enzersdorf (Lower Austria - near Vienna) |

**※實習內容**

***(1) Biogas Group:***

**I**nclude the performance of the following biomass analysis: dry matter, volatile solids, cellulose, hemicellulose, lignin and proteins.
Determination of biomethane potential tests (BMP) from agro-municipal organic residues (e.g. straw): preparation of the setup (biomass, inoculum, fermenters and eudiometers), reading the produced biogas, determination of the methane content, entering the recorded data in our database and interpretation of the results.
Performance of a literature review that could be used for writing a scientific publication.

***(2) Agricultural Life Cycle Assessment (LCA) Group:***

Position LCA: literature research, system description, data collection, implementation of emissions models in LCA software, modelling of process chains in LCA software, analysis and interpretation of results, statistical analysis, report writing and diagram/chart generation
Position GPS in grassland farming: literature research, importing of data and exporting of results from MatLab software, further analysis in excel, statistical analysis, generation of tables and charts, report writing
Performance of a literature review that could be used for writing a scientific publication.

***(3) Agro-mechatronics Group:***

Evaluation of field tests: assistance in image analysis, assistance in spectral measurements, laboratory analysis of harvest samples, evaluation of yield parameters from harvest samples
Field tests: planning of sample schemes and point marking with RTK-GPS, collection of harvest samples, bulk density measurements with soil sample rings, penetration resistance with penetrologger measurements, measurement of soil moisture
Laboratory test: assistance in programing and testing robotic laboratory devices
Literature reviews for project development or scientific publications.

* **Dept. Forest and Soil Science**

**時間：**三月~九月為佳

**申請人資格：**

1. 森林,土壤,生物相關背景
2. 至少須完成五個學期的學業
3. 具備獨立作業及負責待度
4. 對研究主題有興趣且適應團體
5. 做事精確,值得信任且積極學習

**※實習內容：**

Interns can join research groups in subjects as indicated by the expertise of our researchers, preferably during the vegetation season (March - September).Depending on the working group, individual tasks and operations would be either more laboratory, greenhouse or field related.

**聯絡人**：Assoc. Prof. Dr. Boris Rewald (boris.rewald@boku.ac.at)

* **Dept.　Landscape, Spatial and Infrastructure Sciences**

**實習期間：**約2~4個月

**申請人資格：**

　　基礎德語(非必要,為佳)

實習期間可參與學校語言課程

**※實習內容：**

The LArchiv Austrian Archive of Landscape Architecture at BOKU Vienna is located and managed by the Institute of Landscape Architecture. The archive collects documents and data about Austrian landscape architecture of the 20th and 21st century. The LArchiv comprises an analogue and a digital collection.
In accordance with the applicant and the ongoing projects at the LArchiv we offer internships from 2 to 4 month. Students participate in the ongoing inventory project or work on specific research questions in the field of (Austrian) landscape history.

**聯絡信箱：**larchiv@boku.ac.at

* **Dept.　Corp Science**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **編號** | **組別** | **實習時間** | **申請資格** | **聯絡人** |
| **(1)** | **Divisions of Agronomy, Plant Breeding, Plant Protection, Horticulure, Viticulture and Pomology** | March-July | 農業科技背景或相關科系學生 | Prof. Hans-Peter Kaul(hans-peter.kaul@boku.ac.at) |
| **(2)** | **Experimental farm Gross-Enzersdorf** | April-July | 農業科技背景,有field crop production經驗為佳 | Prof. Hans-Peter Kaul, (hans-peter.kaul@boku.ac.at, helmut.wagentristl@boku.ac.at) |

 **※實習內容**

 **(1) Divisions of Agronomy, Plant Breeding, Plant Protection, Horticulure,**

 **Viticulture and Pomology：**

　　　Depending on working group, individual tasks and operations would be either more

　　　laboratory or more field related.

 **(2) Experimental farm Gross-Enzersdorf:**

Tasks and operations are related to field crop management and ongoing scientific

　　　field experiments. Part of the farm is managed according to organic farming

　　　regulations.