



**VIETNAM VETIVER NETWORK**

Danang Vetiver Development Foundation

## **INTERNSHIP PROGRAMME ON SUSTAINABLE AGRICULTURE IN DANANG CITY AND QUANG NAM PROVINCE, VIETNAM**

*Prepared by:* Danang Vetiver Development Foundation, Vietnam

*To:* Dr.Pilar Lisbona Martín, Universidad de Valladolid, Spain

*Internship duration:* 2 months. It can either start in August or September

**Registration Deadline: JUNE 15, 2017**

### **1. HOST ORGANIZATIONS**

#### **1.1. The University of Danang – University of Education**

The School is an institution offering training and retraining programs to teachers, educational administrators, high quality scientific staff, which is associated with the requirement for developing human resources in the Central Region and Highlands and across the country. It is also the institution of scientific research, technology transfer and international cooperation in different fields such as Educational Science, Natural Science, Social and human Science, which serves the cause of industrialization and modernization of the country and contributes to making the Vietnamese Education keep pace with developed countries in the region and in the world.

Add: 459 Ton Duc Thang, Lien Chieu District, Danang City, Vietnam

Phone: (+84.511) 3841 323

Email: [ued.help247@gmail.com](mailto:ued.help247@gmail.com)

Website: [www.ued.udn.vn](http://www.ued.udn.vn) | [www.en.ued.udn.vn](http://www.en.ued.udn.vn)

#### **1.2. Danang Vetiver Development Foundation – Vietnam Vetiver Network**

The organization promotes the use of the Vetiver System for a sustainable development at all scales:

- Slope Stabilization of Public Infrastructure: highways, railroads, bridges, irrigation, drainage, building sites, etc.



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- Agriculture Productivity: stop soil loss, increase soil moisture and fertility, increase productivity of agro-forestry, sustain hillslope agriculture, reduce pollution from sediments and pesticides.
- Pollution mitigation: Treat wastewater and sewage, mitigate industrial and mining pollution.
- Disaster mitigation: Stabilize potential landslide sites, dikes and levees; protect areas against flooding

Its member includes university professors, scientists, engineers, managers and policy makers in the field of infrastructure, transport, irrigation, agriculture, disaster prevention, environmental protection etc.

Address: 29 My An 3, Ngu Hanh Son District, Danang city, Vietnam

Phone: (84.511) 3849.579

Email: [vetivervn@gmail.com](mailto:vetivervn@gmail.com)

Website: <http://vnvn.org.vn/>

## 2. INTERNSHIP SUPERVISORS

2.1. Assoc.Prof, Dr.Vo Van Minh (Email: [vominhdn@gmail.com](mailto:vominhdn@gmail.com); Tel. +84-905234706)

- Head of Registrar Office, University of Education – UD
- Lecture of Biology-Environment Department, University of Education – UD
- Team leader of Research – Training on Danang Environmental and Biological Resources
- Chairman of the GreenViet Biodiversity Conservation Centre
- Executive Board of Vietnam Ecology
- Executive Board of Danang Nature and Environment Protection
- Advanced expert of Vietnam Vetiver Foundation

See more his achievements and publications at: <http://scv.udn.vn/vvminh/>

2.2. MSc.Doan Chi Cuong (Email: [dccuong@ued.udn.vn](mailto:dccuong@ued.udn.vn), Tel. +84-963146388)



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- Expert on Natural Resources and Environment; Toxicological Risk Assessments in Environment; Assessment of Ecosystem Health; Phytoremediation.
- Lecture of Biology-Environment Department, University of Education – UD

See more his achievements and publications at: <http://scv.udn.vn/doanchicuong>

### 3. INTERNSHIP CONTENTS

- Understand features of geography, agricultural practices, and demographics of Danang city and Quang Nam province;
- Understand typical agricultural models of Danang city and Quang Nam province.  
Find out advantages and disadvantages of every single model and Propose proper solutions for each one;
- Understand characteristics and benefits of Vetiver System;
- Know how to plant vetiver to improve farming lands and pollution mitigation;
- Know how to work with local communities and inspire them how to apply the phytoremediation technology for improving their agricultural activities.

### 4. TIMELINE

| Time             | Activity   | Tasks   |
|------------------|--|---|
| Week 1           | Lectures   | Supervisors will deliver lectures on: <ul style="list-style-type: none"><li>- Features of geography, agricultural practices, and demographics of Danang city and Quang Nam province</li><li>- Overview on Vetiver System, its applications and technology</li></ul> |
| Week 2<br>Week 3 | Field trips<br>Hold a seminar with students of Danang University | Come and visit some typical agricultural models: <ul style="list-style-type: none"><li>- Model of livestock/poultry production</li></ul>  |



|   |  |   |
|---|--|---|
|   |  | <ul style="list-style-type: none"> <li>- Model of coastal aquaculture</li> <li>- Model of perennial plants</li> <li>- Model of annual plants on slopping lands</li> <li>- Model of forestry nursery and herb farms</li> <li>- Model of using vetiver system for protecting slope land</li> </ul> <p>Find advantages and disadvantages of each model</p> <p>Assess the sustainability of each model</p> <p>Suggest solutions</p> <p>Reports will be presented and discussed at a seminar</p> |
| <p>Week 4</p> <p>Week 5</p> <p>Week 6</p> | <p><b>Implement a small project on controlling and mitigating water and soil pollution by Vetiver System</b></p> | <p>From visited sites, select 01 slopping farmland and 01 polluted place for vetiver demonstrations</p> <ul style="list-style-type: none"> <li>- Propose the method and plan of plantation</li> <li>- Hold a training class for local residents on vetiver system</li> <li>- Prepare plant materials</li> <li>- Implement plantation</li> <li>- Assess the result</li> </ul>  |
| <p><b>Week 7</b></p>                      | <p><b>Vetiver and urban run-off and stormwater</b></p>   | <p>Plant vetiver to mitigate pollution 01 urban lake in Danang city</p>   |



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| Week 8 | Internship summary and farewell party |  |

- *Weekends, sightseeing tours and out-door activities at Vetiver Library*

### 5. SOME OTHER INFORMATION

#### 5.1. Danang city

Danang is the third largest city in Vietnam, and is located on the Eastern Sea coast, midway between Hanoi and Hochiminh city and the largest city of Central Vietnam. Da Nang is growing into one of the most organized urban area, with attractive beaches on the one side and Han River flowing on the other.

The city itself has neither the atmosphere of Hanoi nor the hustle-bustle of Ho Chi Minh City, but has its share of sights and is close to the ancient cities of charming Hoi An and the imperial capital of Hue, making it a popular vacationing spot for those looking to explore the attractions of central Vietnam or soak up some rays while hanging out on the city's beaches.

#### 5.2. Accommodation

Selected students will be stayed in the International dorm of the University. The room is equipped with bed, air-conditioner, TV, fridge, washing machine.