

## **CALL FOR APPLICATION**

### **PhD in Energy and Green Hydrogen Technology**

#### **Specialty Bioenergy/Biofuel**

#### **SCHOLARSHIP AVAILABLE**

### **1. Context**

The current economy is based on fossil fuels which will eventually run out and whose consumption is the source of greenhouse gas emissions. For several decades now, an energy transition towards alternative energy resources, less polluting and more respectful of the environment, has been underway. Thus, green hydrogen, which is an energy vector, is seen as a good alternative.

In the interest of development in harmony with nature, the production of green or renewable hydrogen from the electrolysis of water or from biomass/bioenergy (biohydrogen) is favoured. The bioproduction of hydrogen, the most recent among the techniques for producing green hydrogen, seems very promising thanks to the mild operating conditions with acceptable conversion rates. But, to be economically viable, biohydrogen production technology must allow industrial production of hydrogen. Also, it is essential to conduct increasingly in-depth research with the aim to improve rate of biohydrogen synthesis processes.

It is within this framework that two PhD study scholarships are offered at the University of Rostock in Germany.

### **2. Specificity of scholarship and duration**

#### *PhD thematics*

- Production, management of Bioenergy
- Production, management of Biohydrogen
- Circular economy, waste management

#### *Knowledge required*

Candidates should have Master of science or equivalent diploma in Biochemistry, Chemistry, Physics, preferably in process engineering.

#### *Duration*

Three years

### **3. Scholarship eligibility criteria**

- Be Togolese

- Hold a Master of science or equivalent diploma (M.Sc. with Mention “Assez-bien” or Second-class Upper) in Biochemistry, Chemistry, Physics, preferably in process engineering.
- Must have at least an intermediate level of English (see Language section on the application form);
- Age limit: 32.

**Note :**

- If you are in another graduate programme, you should not apply for this programme
- Females candidates are encouraged to apply

**4. Funding**

The scholarship is provided by the University of Rostock-Germany and cover the monthly stipend and research, the accommodation and travel cost to University of Rostock, in Germany.

**5. Language of the programme**

This programme is in English. Four months English language course will be offered to selected candidates in the Centre International de Langue de Lomé at the Université de Lomé. At the end of this English language course, students will have to pass an English language proficiency test prior to the registration.

**6. How to apply**

- Fill the form in googleform ----
- The application should include:
  - Cover letter addressed to the President of the University of Lomé
  - A legalized copy of the transcripts and the certificate of diploma (from Baccalaureate to Master/DEA);
  - A detailed updated curriculum vitae;
  - A copy of the research proposal of three pages max;
  - Two letters of recommendation including at least one from at least an Associate Professor with expertise in target thematic areas;

All required document should be sent to WASCAL office, Université de Lomé

**7. Application deadline**

22 September 2024