



## WORK OFFER

Ref. No. BE-2021-062UGB

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### Employer Information

**Employer:** Ghent University  
Department of Environment  
1st floor Blok B Coupure Links 653  
  
9000 Ghent  
Belgium

**Website:**  
  
**Location of placement:** Ghent, Belgium  
**Nearest airport:** Brussels Airport  
**Working hours per week:** 38.0  
**Working hours per day:** 7.6

**Number of employees:** 1  
**Business or products:** Research

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### Student Required

**General Discipline:** AGRICULTURE AND FOOD SCIENCENATURAL RESOURCES AND CONSERVATION

**Completed years of study:** 3

**Field of Study:** Soil Science and Agronomy, General.Environmental Studies.

**Student status requirements:** Student status during the entire internship is obligatory: please include a Certificate of Enrolment with the nomination.

**Language required:** English Excellent (C1, C2)

#### Required Knowledge and Experiences:

The candidate required qualifications:

- Currently enrolled at an accredited University, 1st or 2nd year of MSc in Bioscience engineering, Environmental Sciences, Agronomy or related field
- Basic laboratory skills and willingness to carry our field work
- Background knowledge in soil science and soil processes would be beneficial

#### Other requirements:

Skype interview possibly required

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### Work Offered

Would you like to help deliver a brighter future for a greener agriculture? We are looking for a Master student to work under the project on development of phosphorus (P) filters for agricultural drainage water. This project is based within the research group of Soil Fertility and Nutrient Management at Department of Environment, Ghent University. This internship provides an excellent opportunity for training in laboratory and field experiments and requires enthusiasm and the ability to work within a dynamic research group.

In Northwest Europe, agricultural diffuse P loss is a major cause of eutrophication problems in surface water. Given that the Water Framework Directive (WFD) demands fast water quality improvements and most of the actual P mitigation strategies tend to work on the long run, there is a risk that European Commission will impose severe measures to any member state not complying to the targets of the WFD. The measures may vary from financial penalties to a serve reduction of the P fertilization limits. This would entail serious cost for the agriculture sector in Flanders, which is already under strong economic pressure. However, in practice there is no effective short-term mitigation measure available to reduce P losses from agricultural fields yet. The P filter developed in our research group represents a budget friendly alternative for an efficient removal of P from drainage water. It has proven highly efficient to remove dissolved reactive P from drainage water and further upscaling of this filter is on-going.

The primary responsibilities of this position are to:

- Prepare filter materials
- Evaluate P removal efficiency of the developed modules at lab scale
- Carry our field monitory of the performance P filter and evaluate the filter under field conditions

**Number of weeks offered:** 8 - 10

**Working environment:** Research and development;Office work;Field work

**Within the months:** 01-APR-2021 - 30-SEP-2021

**Gross pay:** 200 EUR / Week

**Or within:** -

**Deduction to be expected:** 0

**Company closed within:** -

**Payment method / time of first payment:** Bank Transfer /

**Latest possible start date:**

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### Accommodation

**Canteen at work:** Yes

**Expected type of accommodation:** Student dormitory

**Estimated cost of lodging:** 100 EUR / Week

**Accommodation will be arranged by:** IAESTE Belgium

**Estimated cost of living incl. lodging:** 200 EUR / Week

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### Additional Information

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### Nomination Information

**Deadline for nomination:** 15-MAR-2021

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Date:

03-MAR-2021

On behalf of receiving country:

Annelies Vermeir