

# Opportunity to conduct your BSc (thesis or internship) or Master project in The Netherlands.

2022  
NHL Stenden



university of  
applied sciences

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# 1. Introduction

NHL Stenden University of Applied Sciences has opened one positions for non-European students looking for practical internship, final year (BSc) thesis and/or master thesis in the Netherlands. Bachelor's and master's students are welcome to apply for the offered positions. The project(s) will be conducted by the Water Technology Research Group (WTRG) at NHL Stenden (Water Technology Lecoraat)<sup>1</sup>. The selected student will have the opportunity to conduct practical (laboratory) and/or theoretical (model) work, depending on the project. The activities will take place in the Water Application Centre (WAC) and/or the Gilbert-Armstrong Laboratory of Electrohydrodynamics<sup>2</sup>. The projects conducted by the WTRG have a close link with different European companies and industries as well as with other research institutes like Wetsus<sup>3</sup>, Centre of Expertise Water Technology (CEW)<sup>4</sup> and other academic institutes, e.g. University of Amsterdam, Wageningen University and Research, Avans University of Applied Sciences, HZ University of Applied Sciences, Van Hall Larenstein University of Applied Sciences.

## 2. What we offer/ask:

- Approximately and 10 (max) months academic exchange at NHL Stenden University of Applied Sciences,
- 40 hours per week, from Monday until Friday (9am to 5pm);
- A student allowance which will be used to cover visa costs (arranged by te university), health insurance (arranged by the student), transportation to and from the Netherlands (arranged by the university) and a monthly allowance of ~600€/month (depending on the costs done with the before mentioned aspects) throughout the academic exchange duration (finding accommodation is also up to the student);
- Opportunity to work in a project with practical (laboratory) research, linked with the Water Technology subject;

## 3. What we ask from you:

- To be regularly enrolled in a non-European higher education institute following an under graduation (bachelor's) or a graduation (master's) program;
- To be enrolled in one following courses: Chemistry, Environmental Engineering, Sanitation Engineering, Chemical Engineering, Electrical Engineering, Physics.

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<sup>1</sup> <https://www.nhlstenden.com/onderzoek/watertechnologie>

<sup>2</sup> <https://www.waterapplicatiecentrum.nl/en/>

<sup>3</sup> <https://www.wetsus.nl/>

<sup>4</sup> <https://www.cew.nl/en/>

- To have (preferably) previous experience with Water Technology (Drinking Water/Wastewater Treatment) and/or Electrohydrodynamics (EHDA or Electrospinning);
- Academic excellence, to be demonstrated by the student's academic transcript;
- The student has to be proactive and work independently at times;
- Laboratory work experience.
- Some experience with the following procedures (techniques) is appreciated: drinking water/waste water treatment (WAC) process and analysis, high-voltage (low power) related safety, high speed imaging, nanoparticle analysis and imaging treatment (Gilbert-Armstrong Laboratory).
- To be proficient on the English language, to be demonstrated by one of the following examinations:
  - Academic IELTS 5.0 (4.0 for each sub skill). For more information: [www.ielts.org](http://www.ielts.org).
  - TOEFL iBT 500 (paper-based), 173 (computer-based) and 60 (internet-based). For more information: [www.toefl.org](http://www.toefl.org). Original test results must be directly sent from the Educational Testing Service to NHL Stenden. The TOEFL institution code for NHL Stenden is C652.
  - Cambridge ESOL score FCE-C (160–161)

## 4. Projects

The projects that the applicant can work on are in the following subjects:

### 4.1 Application of Electrohydrodynamic Atomization (EHDA) as a tool to produce high protein content micrometric capsules

This project aims to evaluate the use of EHDA to produce high protein content micrometric size capsules for feeding larval eels. The student will conduct in tests and analysis to evaluate the necessary conditions of the capsules using EHDA. Preferable backgrounds: Physics, Chemistry, Chemical Engineering or Electrical Engineering.

### 4.2 Vertical wetlands to filter wastewater

This study aims to determine the feasibility of implementing vertical constructed wetland as a decentralized and circular wastewater treatment solution. Particularly, this study serves to select optimal combinations of substrates and plants to be used within the system. The types of wastewater that can be treated without any adverse effect on the plants and whether the water purification achieved by this system can meet relevant water quality standards for reuse and/or for disposal into surface water will be determined. Preferable backgrounds: Chemical Engineering, Chemistry, Environmental Engineering, Sanitation Engineering.

## 5. Application procedure and deadlines

The application process and planning can be seen in the table below:

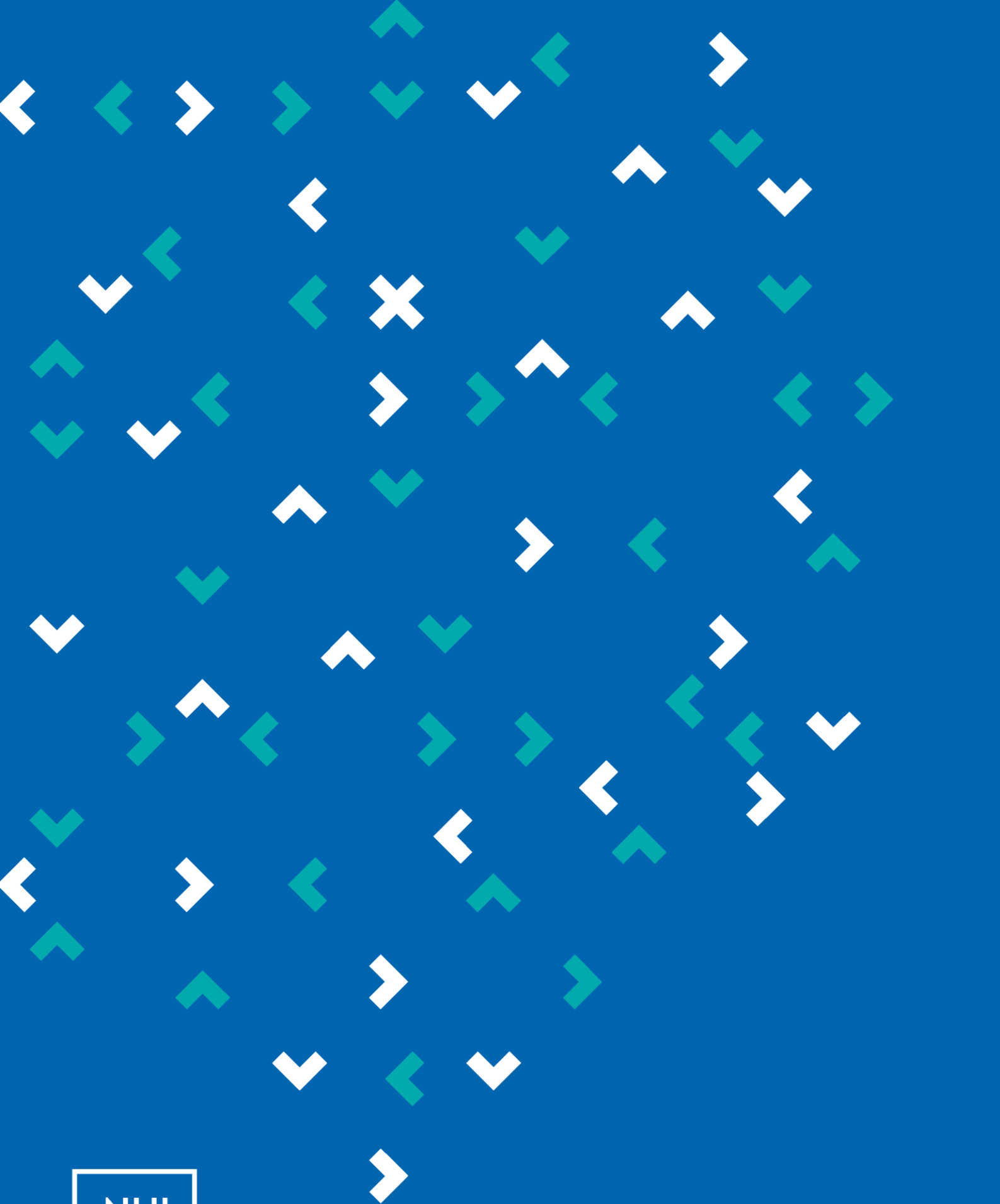
Table 1 - Application procedure and deadlines.

Stage	Period
Documents submitted to <a href="mailto:ronaldo.novaes.ferreira@nhlstenden.com">ronaldo.novaes.ferreira@nhlstenden.com</a>	Until February 02, 2021 (at 18:00, GMT+1)
Documents assessment and selection for interviews	February 03 - 04, 2021
Interview period	February 07-10, 2021
Final result and selection	Until February 13, 2021
Visa application start	Until February 14, 2021
Start of activities in the Netherlands (estimation)	April-May, 2022

Please mention which project subject you would like to apply for in your e-mail. The applicants have to submit the following documents to [ronaldo.novaes.ferreira@nhlstenden.com](mailto:ronaldo.novaes.ferreira@nhlstenden.com) and to [luewton.agostinho@hvhl.nl](mailto:luewton.agostinho@hvhl.nl) (please mention in the e-mail's subject "NHL Stenden WTRG scholarship – Your name and academic institution") before the deadline seen on Table 1:

- CV (in English);
- Passport;
- Language exam;
- Enrolment certificate;
- Academic transcription;
- A letter from your supervisor (professor) from your university stating that this academic exchange period will be beneficial for your bachelor's or master's thesis;
- An official English translation made by a sworn translator of the enrolment certificate and the academic transcription;

If you have any questions, you can reach us by e-mail on [ronaldo.novaes.ferreira@nhlstenden.com](mailto:ronaldo.novaes.ferreira@nhlstenden.com) and to [luewton.agostinho@hvhl.nl](mailto:luewton.agostinho@hvhl.nl)



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