



Information Brochure

Case Studies



General Information

Introduction

In this information brochure you will find general information about the scientific excursion to Indonesia and Singapore called Nèsos '15. The participating students are studying (applied) mathematics, computer sciences, biomedical engineering, (applied) physics and astronomy at the University of Groningen.

Case studies are small projects on which one or two students will work on. This is how we fund the excursion. These projects are like short internships and can include statistical analysis, a literature study, designing a database, doing measurements or as you see fit.

Case Study

Students

The Nèsos '15 committee will select a student with at least 120 ECTS (3rd Bachelor or Master student). The project will be assigned to the most qualified student and will be supervised by a professor.

Your Company

This is an excellent opportunity to use skilled students to do tasks that otherwise would not get done or would be outsourced to expensive companies. One student will work for 120 hours and this costs €1900,-. The description of the case study will be published in the final report and advertisement on the Nèsos '15 website is costless. Furthermore is this a nice way to get students to know your company.

Cases Overview

An overview of seven previous case studies is given to provide an idea about what kind of projects were done in the past

Thales - GPS Loggers (2013)

Thales is a company whom are working at radar systems. They needed cheap GPS logger that worked when an airplane goes at high speed around a corner. The student tested several loggers and gave an extensive advice which one to buy.

This company is specialized in geometrical metrology. Schut

Schut - Creating 3D images (2013)

needed 3D images to measure the dimensions of all kinds of objects and cavities with a good accuracy and precision. The idea of the case was to investigate, by simulation, whether there is a physical limit to the precision of the image, due to scattering of X-rays in the object.

Friesland Campina - Communication and security awareness (2013)

The case study was split up in two parts. The first one was investigating ICT-communication. They wanted to get insight into how employees currently get different information types and how they would like to receive/retrieve this in the future. The second part requested a measurement on the status quo of information security awareness within Friesland Campina.

Cases Overview

UMCG - Analyzing and checking databases (2013)

the University Medical Centrum Groningen on several criteria. After that the student added the missing publications to the database.

UMCG - Analyzing and checking databases (2013) In this case the student checked the publications of teachers from

This international company that trades in natural gas needed a model for gas usage as a function of the temperature outside. Several types of models were evaluated to see which one gave the best result.

Gasterra - Mathematical prediction of gas consumption (2011)

Deltares - Two phase flow in a declining pipe (2009)

search in the way gas bubbles are transported through water. Also the relation between characteristic traits of the bubbles were determined.

This company is an institute, specialized in water management. The aim of this case was to do re-

For Noordhoff publishers, publisher of 'Moderne Wiskunde', a game was designed for on their website. The game consists of correctly combining balls with questions and answers.

Noordhoff - Creating a mathematical game (2009)

Contact

Board of Recommendation

The Board of Recommendation for this excursion consists of the following persons:

- Dhr. Jacques Werner - *Ambassador to Singapore and Brunei*
- Dhr. Ruud Vreeman - *Mayor of Groningen*
- Prof. dr. Elmer Sterken - *Rector Magnificus, Rijksuniversiteit Groningen*
- Prof. dr. J. Jasper Knoester - *Dean of the faculty of mathematics and natural sciences, rijksuniversiteit Groningen.*

Contact

The committee Nèsos '15 consists of the following persons:

- Maarten Degen - *Chair*
- Steven van der Veeke - *Treasurer*
- Fanna Lautenbach - *Business Commissioner*
- Jos Borger - *Business Commissioner*
- Lianne van Timmeren - *Commissioner Activities*

The Committee can be contacted at:

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