



Contact

The committee Dejima '17 consists of the following persons:

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Dejima '17

Case studies
Information

General Information

Introduction

In this information brochure you can find general information about the scientific excursion to Japan, Deijma '17. The trip is primarily designed for students of (applied) mathematics, (applied) physics, computing science, artificial intelligence, and astronomy at the University of Groningen.

Case Study

Case studies are small projects on which one or two students work, in order to fund the excursion. These projects resemble short internships and can include statistical analysis, a literature study, the designing of a database, performing measurements etc.

Students

The Deijma '17 committee selects students with at least 120 ECTS (3rd-year Bachelor or a Masters student). The project is to be assigned to the most qualified student and supervised by a professor.

Your Company

This is an excellent opportunity to use skilled students to undertake tasks that would otherwise not be fulfilled or outsourced to expensive companies. One student will work for 120 hours and this costs €1950,-. The description of the case study will be published in the final report. Advertising on the Deijma '17 website is free of charge. This is also an effective way for students to learn about your company.

Cases Overview

An overview of previous case studies is given below in order to provide an idea on how projects have been done in the past.

Nederlandse aardolie maatschappij - Active Magnetic Bearing (2015)

The aim of this study was to examine trips occurring in the compressors of multiple gas extraction locations and see if there is a general cause to be found in all or multiple events. The main idea was to focus on Active Magnetic Bearing (AMB) trips, for which no explanation was given in the trip report and study data before, during and after the trips.

Center for Information Technology – Improving Progress (2015)

Progress is utilized by several universities, including the University of Groningen. It enables students to register online for courses and enrol for examinations. The aim of the case study was to improve the ease with which the students' study progress can be retrieved within Progress, both for the academic staff and the students.

Schut – Improving models which calculate the flow around air bearings (2015)

At the start of the project the company provided a model that successfully calculated the flow around certain designs of air bearings but crashed when used on other designs. The goal of the project was therefore to improve this model such that the company could use it in their investigation of these other designs of air bearings as well.

Incas3 – Mapping the microclimate of the Zernike Campus (2015)

A microclimate is strongly influenced by the location of buildings, trees and roads. Together with the municipality of Groningen and support of the Zernike Campus park management, a project was undertaken to map the microclimate of the campus. This was achieved with the aid of an extensive network of sensors.

Thales - GPS Loggers (2013)

Thales is a company that produces radar systems and many other electronic systems in aerospace, defence, security and transportation. They needed a cheap GPS logger that works on an aeroplane when yawing or rolling at high speed. The student tested several loggers and gave extensive advice on which one to buy.

Schut - Creating 3D images (2013)

This company is specialized in geometrical metrology. Schut 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. Insight was wanted into how employees currently get different information types and how they would prefer to receive or retrieve this in the future. The second part requested a measurement on the status quo of information security awareness within Friesland Campina.

UMCG - Analyzing and checking databases (2013)

In this case, the student checked the publications of researchers from the University Medical Centrum Groningen on several criteria. After that the student added the missing publications to the database.