



**JOB
CATALOGUE
2010
ANSØGNINGS
RUNDE #2**

IAESTE traineeship 2010

Table of Contents

<i>WELCOME</i>	3
<i>WHAT IS AN IAESTE TRAINEESHIP?</i>	3
<i>WHY GO ON A TRAINEESHIP ABROAD?</i>	3
<i>PRIORITISING AND WHY</i>	4
Special rules for some countries	4
<i>EXCHANGE PROCEDURE</i>	5
<i>INFO MEETINGS</i>	6
<i>WWW.IAESTE.DK</i>	6
<i>IMPORTANT DATES</i>	7
<i>FEE</i>	8
<i>INSURANCE</i>	8
<i>TRAVEL EXPENSES</i>	8
<i>SALARY DURING STAY</i>	9
<i>HOW TO READ THE JOB CATALOGUE</i>	9
<i>INTERNATIONAL STUDENTS IN DENMARK</i>	10

IAESTE traineeship 2010

WELCOME

As National Secretary of IAESTE Denmark I would like to welcome all of you to another year of practical experience abroad. IAESTE is an international organization which since 1948 has been working with the aims of:

- providing students in higher education with technical study-relevant experience.
- offering employers well-qualified and motivated trainees.
- being a source of cultural enrichment for trainees and their host communities.

The number of jobs we can offer to Danish students reflect the work of our volunteer members during the fall but also the general financial situation in the Danish companies.

This year we can offer the Danish students **31 jobs in 23 different countries.**

Best regards,

Dan Jensen

National Secretary

IAESTE Denmark

WHAT IS AN IAESTE TRAINEESHIP?

An IAESTE traineeship is your opportunity to get some practical experience relevant to your studies. The traineeships provided by IAESTE are paid, they can take place at universities or in companies abroad and vary from 6 weeks up to 18 months, and anything in between. In order to apply for a traineeship through IAESTE, you have to be a student in the areas of engineering, pharmacy, natural science or architecture. Furthermore, you must be enrolled at a higher technical education institution in Denmark. If you have finished your studies in 2010 you can still apply for a traineeship in most countries for the rest of the year.

WHY GO ON A TRAINEESHIP ABROAD?

There are numerous reasons for going on an IAESTE traineeship abroad.

Practical and international experience weighs heavily on your CV. By participating in a traineeship abroad, you increase your possibilities of getting the job you want, and on top of this you get a **unique cultural experience.**

IAESTE trainees are often working and living in the same city, and you therefore have the opportunity to meet both the local population as well as other IAESTE trainees from different countries all around the world.

An IAESTE traineeship could give you the opportunity of postponing the difficult task of finding a permanent job. In these so trying times of financial crisis and unemployment it could give you a significant competitive edge when the time does come for finding a permanent job.

Last but not least, in some cases the IAESTE traineeship might be a **window to a permanent employment abroad**; if you do a good job, the company might want to keep you!

IAESTE traineeship 2010

PRIORITISING AND WHY

IAESTE Denmark was one of the founding members, and has been operated by volunteer students since 1948. In the recent years we have experienced that less Danish students want to do volunteer work without getting something in return. It was therefore decided to give each *active* member of IAESTE the possibility of getting priority status once during their study time. This means that members who have been approved by the Danish National Committee will be allowed to choose a job before the other applicants. Since all the applicants have to be approved by the National Job Distribution Committee on the same date it is not possible to say exactly which jobs have been given to IAESTE members. This is not usually a big issue, but we still recommend you to consider as many joboffers as possible, just in case.

The selections of jobs offered to the Danish students widely reflect the results from the pre-registration, which took place in November 2009. Due to the importance of this survey, IAESTE Denmark gives these students a higher priority when the jobs are distributed.

In the recent years IAESTE Denmark has sent quite a few international students abroad. However, our main goal is to give the Danish students a global education. This means that international students will have a lower priority compared to Danish students.

Despite this we still manage to send out international students, so it is defiantly not in vain to apply.

We define Danish students as: Students who are enrolled in a higher technical educational institution, where they will be studying for at least 3 years.

This lead to the following list of priority:

1. Active members with priority status.
2. Students with pre-registration (members and non-members).
3. Other Danish students.
4. International students.
5. Students who have had more than two IAESTE traineeships.

The jobs are distributed by a draw between qualified applicants from each group starting from group number one. This year no active members have priority status.

We do expect to send out students from all categories.

Special rules for some countries

Germany – Can not receive applicants who have graduated.

Canada, Croatia, Slovenia and Switzerland – Only accept students who are citizens in the country, which they apply from.

IAESTE traineeship 2010

EXCHANGE PROCEDURE

Read the job descriptions carefully and make sure that you fulfil all the requirements for the job. Do **not** apply for a job that you are not qualified for. You can apply for up to five traineeships. However, it is not possible to make a priority between the different jobs.

To submit the application, you need to fill in an application form, which can be obtained either from our web-page <http://www.iaeste.dk> or from the IAESTE office at DTU.

Furthermore, you need to hand in a Curriculum Vitae (CV), a letter of application and motivation and a transcript in English with a signature from the university. If IAESTE assign you a traineeship, you will receive a letter telling you to pick up and fill in further forms (Form O and Student Nominated) at the IAESTE office. Your application will be checked by IAESTE Denmark as well as by IAESTE in the country you apply to. The application is then sent to the employer, who in the end decides if you are qualified for the job. We try to answer your application as soon as possible, but this process usually takes at least a month and unfortunately sometimes even longer.

*IAESTE stresses the fact that you are **not** allowed to contact the employer before you have received the acceptance. Should this happen, you will lose both job and fee, and you will not be able to apply for a traineeship through IAESTE Denmark again.*

In case you do not receive a job in the first application round, it is possible for you to apply in the second application round, where the unfilled jobs will be re-announced.

All applicants who do not receive a job in the common application rounds have the possibility of signing up for our student's database. During the year we are offered many extra jobs. However, these are also offered to other IAESTE countries. Therefore we contact you with the available jobs through e-mail, and the selection for those jobs will be according to the first come, first served principle. As we already have your papers from the common application rounds we just need a cover letter addressed to the company.

IAESTE traineeship 2010

INFO MEETINGS

Info meetings will take place at the universities and dates mentioned below.

University of Copenhagen

Faculty of Pharmaceutical Sciences

For the address, see the back of the cover, **Monday, 8th of February, at 5.30 pm**

Technical University of Denmark

The IAESTE office, Anker Engelunds Vej 1, build. 101E,
2800 Lyngby, **Thursday, 11th of February, 5.30 pm**

At the info meetings you will receive more information about exchange procedures and we will try to answer your questions.

The members often have knowledge of conditions in countries/towns/companies worth knowing.

Therefore we highly recommend that you attend one of the info meetings if you consider applying for an IAESTE traineeship. If you are prevented from attending we recommend you to contact the IAESTE office at DTU, see the back of this catalogue.

WWW.IAESTE.DK

At iaestes homepage (iaeste.dk) you can see more about IAESTE. If there is changes/updates compared to the printed version of the job catalogue, these will also be shown here. Besides this you can find the application form, Instructions for filling in the IAESTE traineeship application form 2010 and the form 'Student Nominated'.

IAESTE tranieeship 2010

IMPORTANT DATES

Application deadline 1st round:

Application has to be handed in no later than **Thursday, the 18th of February at 2pm** at the IAESTE DTU office, or through postal mail to IAESTE Denmark. See the addresses on the last page.

*The result of job distribution will be in the hand of the applicants through postal mail **Tuesday 23rd of February.***

Claiming of 'Form O':

If you are assigned a job, you should pick up 'form O' at IAESTE no later than **Friday, February 26th at 2pm**. The filled in 'form O' and new application should be handed in no later than **Thursday, March 4th at 2pm**.

List of unfilled jobs after the 1st round:

The list can be seen at the IAESTE office, and at <http://www.iaeste.dk> from **Friday the 5th of March**.

Application deadline 2nd round:

Application has to be handed in no later than **Friday 12th of March at 2pm** at the IAESTE office, or through postal mail to IAESTE Denmark. See the addresses on the last page.

*The result of the 2nd round will be in the hand of the applicants through postal mail on **Monday, March 15th.***

Claiming of 'Form O':

The 'form O' for jobs in the 2nd round should be picked up no later than Friday the **19th of March at 2pm**. The filled in 'form O' should be handed in no later than **Thursday the 25th of March at 2pm**.

If the 'form O' is not collected before the above dates, the job will be lost.

IAESTE traineeship 2010

FEE

When you are assigned a traineeship and pick up your O-form, you must pay a fee of 1000 kr. Fee revenues cover less than a tenth of the expenses of IAESTE Denmark. The fee can be paid in cash or bank transfer.

If you are not assigned a job you will of course not have to pay a fee. In case the employer does not accept you, or the offer is cancelled by the employer, the application fee will be paid back to you. However, if you back out of an offer that has been assigned to you, you will not get your money back.

INSURANCE

It is important to take out an insurance policy for the stay, as the yellow health insurance card does not cover working abroad. IAESTE traineeships are considered paid work. It is a **demand** from IAESTE International that you are covered by insurance when going on a traineeship.

You can buy the insurance you need from IAESTE, who sells a special insurance from 'Europæiske Rejseforsikring' for students. The price is 15.50 DKK per day in geographical Europe and 18.50 DKK per day in the rest of the world. The list of coverage amounts can be obtained through IAESTE. The insurance also covers dangerous sports (not professional, however), and you can extend your insurance with extra baggage and accident coverage.

It is not necessary to take out insurance until you have your final acceptance and ticket.

The insurance can be taken out on a daily basis at the IAESTE offices. We only accept cash or bank transfers.

The fine print: IAESTE receives a commission from selling 'Europæiske Rejseforsikring', but it should be mentioned that IAESTE has investigated the market of travel insurances. A cheaper insurance can be found, but the coverage is not as good as the one of 'Europæiske Rejseforsikring'. IAESTE is of the opinion that this is not the place to save during a stay abroad of this type.

TRAVEL EXPENSES

You shall pay the expenses of your travel yourself. You might have a look at the 'Trainees reports' at the IAESTE offices to see how former trainees found their way to the training place. If you are quick, you might be able to get contributions from different foundations to cover your travel expenses.

It is a good idea to reserve tickets, even though you have not received your final acceptance. However, you should not pay your tickets until you have all approvals and work/residence permit. IAESTE does not cover loss on tickets and other expenses.

IAESTE traineeship 2010

SALARY DURING STAY

Usually the salary covers lodging, local transportation and food, but some time might pass before you receive the first salary. Therefore it is necessary that you bring some money along to pay for e.g. rent, deposit for lodging, etc. It is our experience that Danish students find the salary in developing countries insufficient. But as the price-level is usually considerably lower than in Denmark it should be manageable.

The salary and the living expenses might differ from the ones given because of inflation.

HOW TO READ THE JOB CATALOGUE

Only the essence of the jobs can be seen in this job catalogue. More information may be found at the IAESTE DTU office, where it is possible to see a copy of the original job formula.

The jobs in the catalogue are sorted alphabetically by the English names of the countries, e.g. you find traineeships in 'Australia' in the front and 'USA' in the back.

First line of each job states:

- Country
- Job number. The number you should write on the application form.
- The length of the job. If an interval is indicated, e.g. 8-10 weeks, it means that you can decide how long you wish to work within this interval, if the job is assigned to you.
- Period. The period, again indicated as an interval, within which you can place your stay more or less freely.

City indicates in which city or area the workplace is.

Faculty/Specialization indicates which subject area the job belongs to. Often a job can belong to several subject areas, therefore it is necessary to read the entire catalogue to make sure you have found all the jobs you are able to apply for.

Work offered is the job description itself, as well as possible specific conditions of the job, e.g. specific qualification demands.

The following are the demands of the company towards the student

Language demands:

- 'Excellent' means that you control the language fluently both written and orally.
- 'Good' means that you can communicate effectively in the language.
- 'Fair' means that you have a basic knowledge of the language.

This means that you should perform a matter-of-fact evaluation of your own language qualifications. Call IAESTE Denmark if you have any doubts.

Study seniority:

Finally it is stated how far in your study you should be to apply for the job. This includes three categories: 'beginning', 'middle' or 'end'.

IAESTE traineeship 2010

INTERNATIONAL STUDENTS IN DENMARK

International students studying in Denmark with other citizenship than Danish can apply for a traineeship through IAESTE Denmark. This is, however, only possible if you are taking a full education in Denmark and have more than one semester left in Denmark when you return from the traineeship. Canada, Switzerland and Croatia do not accept exchanges from students who are not citizens in the country they apply from. You can always apply through your home country. See <http://www.iaeste.org/>.

The application form should be handed in at the IAESTE DTU office, or can be sent to:

IAESTE Denmark
Anker Engелunds Vej 1, building 101E
2800 Lyngby
Office hours: 9 AM to 2 PM
Phone no. +45 77 42 43 90
Fax no. +45 77 42 43 99
E-mail: office@iaeste.dk
<http://www.iaeste.dk>

STAND BY YOUR APPLICATION

IF YOU CANCEL YOUR TRAINEESHIP IT COSTS YOU 1000 DKK AND YOU MIGHT PREVENT ONE OF YOUR FELLOW STUDENTS FROM GOING ABROAD.

IAESTE tranieeship 2010

Austria	Job #: AT001	Number of weeks: 6 - 6	Within: 5/1/2010 to 9/30/2010
<p>City Wien</p> <p>Faculty: Civil engineering</p> <p>Specialization: Soil mechanics, geotechnical engineering</p> <p>Work offered: All affords of a soil mechanics laboratory. Performance of soil laboratory tests and geotechnical measurements, evaluations of soil laboratory tests, numerical analysis.</p> <p>Previous training required, i.e. Laboratory experience.</p> <p>Language required: English excellent and fair German</p> <p>Student required: Bachelor student in the end of studies or Master student</p>			

Brasil	Job #: BR001	Number of weeks: 10 - 12	Within: 5/1/2010 to 8/31/2010
<p>City Recife</p> <p>Faculty: Mechanical engineering, Electrical engineering, Automation Engineering</p> <p>Specialization:</p> <p>Work offered: Development of automation systems to machines and processes of industries including but not limited to: project concepts, detailed projects, software development, supervisory programs and PLCs, electrical projects, startups.</p> <p>Other requirements: PLC programming especially Siemets/Rochwell. Supervisory programming especially iFIX, Wonderware, Factory Talk View</p> <p>Language required: English excellent</p> <p>Student required: Bachelor student in the end of studies or Master student</p>			

Canada	Job #: CA002	Number of weeks: 26 - 52	Within: 9/1/2010 to 9/1/2011
<p>City Montreal, Quebec</p> <p>Faculty: Biotechnology</p> <p>Specialization: Microbiology/biochemistry</p> <p>Work offered: Research assistant. Project will be in the field of yeast propagation, related to beer. A detailed project description will be available at a later date.</p> <p>Work starting in september 2010.</p> <p>Good academic standing required.</p> <p>Language required: English good, some French preferred</p> <p>Student required: Bachelor student in the end of studies or Master student</p>			

IAESTE tranieeship 2010

Germany	Job #: DE001	Number of weeks: 16 - 16	Within: 1/1/2010 to 12/31/2010
City	Mainz		
Faculty:	Chemistry, Pharmaceutical chemistry, nuclear chemistry		
Specialization:			
Work offered:	Practical training in the fields of chemistry, organic chemistry, medical chemistry. Practical work: synthesis of new molecules for medical application.		
	Laboratory experience required.		
Language required:	Good English		
Student required:	Bachelor student in the end of studies or Master student		

Germany	Job #: DE002	Number of weeks: 8 - 8	Within: 1/1/2010 to 12/31/2010
City	Berlin		
Faculty:	Enviromental sc., ecology, geocology, geography, biology, biogeochemistry		
Specialization:			
Work offered:	Basic task in the offered position is to support our team in its meassurement campaign during vegetation period of 2010 using e.g. The closed-chamber-method. Our national research project deals with trace gas dynamics of different peatland use types, their impact on the national/global trace gas balance and thus to develop strategies for avoiding further trace gas emissions. Therefore detailed and reliable records of different resarch sites (our branch covers NE-Germany) have to be collected and analysed in our GC-laboratory. Futher more the provided data set has to be processed and statistically evaluated in order to reproduce the data into a flux model.		
	If possible please apply for full months.		
	Background of enviromental sciences with strong interest in atmospheric and soil dynamic processes. Knowledge of the use if common office tools is required. It is essential that applicants have a strong desire to work outdoors in the field and have a rather good physical constitution. Knowledge of statistical analysis and first experiences in modelling would be a benift, but is not essential.		
Language required:	English good, good German or Spanish desired		
Student required:	Bachelor student in the end of studies or Master student		

Greece	Job #: GR001	Number of weeks: 8 - 12	Within: 6/1/2010 to 12/30/2010
City	Athens		
Faculty:	Civil engineering		
Specialization:	Structural Engineering		
Work offered:	- Structural analysis and design of existing reinforced concrete structures. - Structural restoration and maintenance of monuments and historical buildings of high cultural value. - Repair and strengthening design of damaged reinforced concrete and masonry structures.		
	Must be able to read user manuals in German		
Language required:	English excellent and good German		
Student required:	Bachelor student in the end of studies or Master student		
Important:	It is not possible to work for this company during the month of August!		

IAESTE tranieeship 2010

Iceland	Job #: IS001	Number of weeks: 8 - 16	Within: 5/1/2010 to 9/30/2010
City	Reykjavik		
Faculty:	Physics, electronics, chemical engineering or material science		
Specialization:			
Work offered:	Hydrogen storage materials, energy of the future. Instrumental development/measurements using optical or electrochemical techniques. Possibly also STM		
12 weeks preferred			
Language required:	English excellent and Danish/other nordic		
Student required:	Bachelor student in the end of studies or Master student		

Malta	Job #: MT001	Number of weeks: 4 - 6	Within: 6/15/2010 to 12/15/2010
City			
Faculty:	ICT		
Specialization:	Computer science & ICT		
Work offered:	Our company has over 15 years experience in conducting environmental research both locally, i.e in Malta, and abroad. We consider bringing our results to the attention of all stakeholders as a key priority. We are keen to further develop our website (www.environmentalmalta.com). In this regard, the tranieeship would be in respect of adding new galleries on recently completed projects as well as to extend display functionality on our site (e.g through introduction of web-gis and video footage). Since some of our recent projects were carried out in Latin-America (Peru and Mexico) we would like the traniee to have a good knowledge of Spanish.		
Other requirements:	Trainee should be interested in design and development of advanced web-applications and new communication technologies (e.g. Web-gis).		
The traniee should be interested in design and development of advanced web-applications and new communication technologies (e.g web-gis)			
Language required:	English excellent, good knowledge of Spanish would be an asset		
Student required:	Bachelor student in the middle to end of studies or Master student		

Switzerland	Job #: CH001	Number of weeks: 8 - 16	Within: 4/1/2010 to 12/31/2010
City	Zuerich		
Faculty:	Mathematics		
Specialization:	Numerical Analysis, Scientific Computing		
Work offered:	Implementation of advanced numerical methods for the solution of partial differential equations in MATLAB plus examination of their performance and visualization of results.		
Programming skills necessary.			
Language required:	English good		
Student required:	Bachelor student in the end of studies or Master student		

IAESTE tranieeship 2010

Switzerland	Job #: CH003	Number of weeks: 12 - 12	Within: 6/1/2010 to 9/17/2010
City	Villigen PSI		
Faculty:	Physics		
Specialization:			
Work offered:	Large Research Facilities / Target facilities and activated materials (OG 8591).		
	Automatic reprocessing of a large set of calculated data (nuclear cross sections), its (graphical) representation in a useful form and comparison to experimental data. Eventually analysis of the data set regarding the uncertainty as well as implications on other calculations using these cross sections.		
	Experience in Linux and programming (preferably Fortran, Perl, C).		
	Training period: starting June 2010		
Language required:	English good or good German		
Student required:	Bachelor student in the middle to end of studies or Master student		

United States	Job #: US001	Number of weeks: 24 - 24	Within: 7/1/2010 to 2/1/2011
City	Lincoln, NE		
Faculty:	Chemical Engineering		
Specialization:	Chemical Engineering/Physical separations by distillation		
Work offered:	Practical training on Aspen Plus simulator and using azeotropic distillation application of Aspen Plus. Intern will learn how to use the Aspen Plus software package to design distillation columns and study the problem of azeotropic distillation and purification of ethanol with Aspen Plus.		
	Computer skills required.		
Language required:	English excellent		
Student required:	Bachelor student in the end of studies or Master student		