

41/02/2007-EO(F)
Government of India
Ministry of Personnel, P.G. and Pensions
(Department of Personnel and Training)

New Delhi, the 10th September, 2007.

Subject Advanced International Training Programme on "Efficient Energy Use in Industry" to be held in Lulea, Sweden from 12th May, to 13th June, 2008.

The undersigned is directed to state that the Swedish International Development Cooperation Agency(Sida) has invited applications for an **Advanced International Training Programme on "Efficient Energy Use in Industry" to be held in Lulea, Sweden from 12th May, to 13th June, 2008.** The details of the programme and the application form may be drawn from Ministry of Personnel, Public Grievances and Pensions website (www.persmin.nic.in). There are 25 slots available globally.

2. This programme is particularly designed for the (1) engineers who are responsible for production, energy or maintenance matters in energy intensive plants (e.g. mining and metallurgy, pulp and paper, chemical and process industries), (2) consultants working with demand and energy efficiency and conservation in the industry as well as (3) experts and specialists from relevant authorities and institutions responsible for energy issue in industry. The applicant should be highly proficient in English and must have access to and be able to work with computers.

3. The objectives of an Advanced International Training Programme on Efficient Energy Use in Industry are (1) To provide applied knowledge about technologies and methodologies for improved energy efficiency in industry, (2) to demonstrate applications and working solutions used in industry, (3) to learn more about energy economics and project financing methods, (4) to develop skills for implementing energy efficiency projects and (5) to understand the role of efficient energy use in sustainable development.

4. **Sida covers** the participation costs, boarding and lodging costs and also provides an insurance cover in case of acute illness or accident. However, **Sida does not cover** International travel costs from home to Sweden and return costs. The participants are not allowed to bring any family member during the training course. The closing date for application is **14th December, 2007.**

5. It is requested that the nomination of the suitable candidates may please be forwarded to this Department in accordance with DOPT's Circular No. 37/9/2006-EO(F) dated 2.8.2006.

6. The nomination details should be submitted in the prescribed proforma (Annexure-I) for long term/short term foreign training programme under Foreign Funding Scheme as well as in the Sida's prescribed proforma duly authenticated by the Department concerned

7. The applications should reach the Department not later than 30th November, 2007. Nominations received after the prescribed date will not be considered. The circular inviting applications for training course is available on this Department's website (www.persmin.nic.in).


(Trishaljit Sethi)
Director

1. All the Ministries/Departments, Govt. of India.
2. All the State Governments/Union Territories.
- ✓ 3. Director(Technical), NIC with the request to post the circular along with the Technische Universitat Drasden's circular on the Department's website.

**APPLICATION FOR LONG-TERM & SHORT-TERM FOREIGN TRAINING PROGRAMMES IN
2007
(FUNDED BY FOREIGN GOVERNMENTS)**

1.	Name				
2.	Designation				
3.	Service				
4.	Cadre				
5.	Batch				
6.	Date of Birth				
7.	Category- Gen/SC/ST				
8.	Date of Joining Service				
9.	Present Posting with Date of Appointment/ Posting				
10.	Complete Postal Address : Official \$				
11.	Complete Postal Address : Residential				
12.	Email				
13.	Telephone numbers	Off:		Res:	
				Fax:	
14.	Academic Background	S.No.	Qualification	Year	Subjects
15.	Previous record of Foreign Training *	Name of the Institute/Country		Name of the Course	Period
16.	Brief description of the nature of work of the present post held				
17.	Name with Code Number of the training programmes opted for				

\$ Subsequent change in address, if any, should be intimated to this Department.

* Note : In case of a false information or suppression of information, the officer will be liable for disciplinary proceedings apart from the debarment from foreign training for the rest of his career.

Certified that the information given above is correct to the best of my knowledge and belief.

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Efficient Energy Use in Industry



IN LULEÅ, SWEDEN, MAY 12–JUNE 13, 2008

Invitation

The Swedish International Development Cooperation Agency (Sida) is a government agency responsible for the major part of Sweden's development cooperation. Focus on long-term knowledge and competence development constitutes a major feature in all development cooperations.

Sida offers, as part of its bilateral development assistance, Advanced International Training Programmes of strategic importance to the social and economic development of cooperating countries based on identified priorities and needs. In the long-term perspective the programmes shall contribute to institutional strengthening and capacity development in the cooperating countries.

These programmes aim at enhancing managerial and technical skills and cover subjects of strategic importance to economic and social development. The Training Programmes are designed for experienced executives in middle and top management positions in their respective organisations.

With the Training Programmes, Sida aim to contribute to processes of change and development in the participants' organisations and lines of businesses. The foundation of the entire programme is a project assignment. The assignment shall be well established in the participant's organisation and is a basic part of the programme concept.

Energy is a crucial component for economic growth in most economies, not the least in developing countries. Lack of energy is thus many times a limiting factor for a country's development, either directly because of insufficient capacity or indirectly because the need for import of energy at high costs. In addition various studies show that the industrial sector in developing countries has a higher specific energy use compared to corresponding industries in developed countries.



Maria Norrfalk
Director General
Sida

Addressing the problem by simply increasing the generating capacity might thus not be the most feasible long-term solution. Rather should priority be given to the concept of energy efficiency since it is a more pro-active approach in terms of sustainable development. In this context it can be defined as energy supply alterations that give lower business-economical, environmental or socio-economical costs. All measures that will foster the industry's performance regarding energy consumption are therefore ultimately of interest for the development of other sectors of the society.

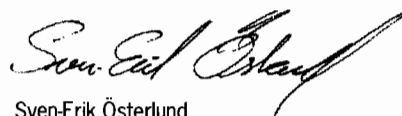
Sweden has many energy intensive industrial plants like pulp and paper mills, mines, smelters and steel works, cement factories, refineries and chemical plants. Energy represents a substantial part of the operational costs for this type of industries that in addition also are subject to international competition. Based on many years experience efficient methods and tools for reducing energy consumption have been developed and today Sweden is one of the forerunners in energy efficient technologies. This knowledge helps Swedish industry to be competitive in today's global market.

The training of personnel is a key issue in both the short and long term perspective of development. Sida is therefore sponsoring this programme on Efficient Energy Use in Industry and has entrusted Centek at Luleå University of Technology with the task of carrying out the programme.

The programme will be conducted in English and is designed for engineers holding management positions in energy intensive industries or affiliated authorities and organizations.

We trust that the programme will be of interest to you and hereby invite you to nominate candidates.

Women are encouraged to apply.



Sven-Erik Österlund
Programme Manager
CENTEK

Programme Objectives

The overarching goals for the training are:

- To provide applied knowledge about technologies and methodologies for improved energy efficiency in industry
- To demonstrate applications and working solutions used in industry
- To learn more about energy economics and project financing models
- To develop skills for implementing energy efficiency projects
- To understand the role of efficient energy use in sustainable development

Contents

Week 1

- Energy management
- Energy Audits
- Information retrieval
- Project work
- Plants and site visits

Week 2

- Heat conservation and recovery
- Efficient use of electricity
- Efficient combustion technologies
- Control systems
- Operation and maintenance
- Case studies/project work
- Plants and site visits

Week 3

- Energy conservation possibilities
- Environmental aspects of energy use
- Energy economy
- Financing of energy efficiency projects
- Case studies/project work
- Plants and site visits

Week 4

- Energy management
- Implementing projects
- Energy economy
- Case studies/project work
- Plants and site visits

Received application by administration:

Sign _____ Date _____

Comment, see attached note

APPLICATION FORM (Typewriting or block letters)

The _____ Country _____
(name of nominating organisation/institution/company)

nominates _____
(name of applicant)

**To the programme Efficient Energy Use in Industry
in Sweden May 12–June 13, 2008**

Reasons for nomination _____
(obligatory)

Date _____

Signature of nominating organisation/institution/company _____

(When necessary/applicable)

The Nomination is approved by (name of authorising authority) _____ in accordance with local rules.

Date _____ Signature of authorising authority _____

The Application should be submitted to the appropriate Swedish Embassy/Consulate at the latest on **December 14, 2007**.
The Embassy/Consulate will forward it to the programme secretariat.

If no appropriate Swedish Embassy/Consulate in the country,
please submit application form directly to secretariat at the
latest on **December 14, 2007**.

Applicants from the following regions: Balkan region, Caucasus, Central Asia, Moldova, Russia must submit the application form directly to the programme secretariat at the latest **December 14, 2007**.

CENTEK, Aurorum Science Park
SE-977 75 Luleå, Sweden
Phone: +46 920 49 18 42
Fax: +46 920 990 20
E-mail: ee@centek.se
Web site: www.centek.se

PHOTO

(Please do not glue.
Attach with Staple)

Applications received after this date will not be considered.

PERSONAL HISTORY (Please attach your business card if available)

1. First name (underline name by which formally addressed)		Second name		Family name (surname)	
2. Office address			3. Telephone (to office). (country code/area code)		
			Fax no.		
			E-mail (obligatory)		
4. Home address			5. Telephone (home) (country code/area code)		
			Mobile phone:		
			E-mail (home):		
6. Nationality		Date of birth	Day	Month	Year
7. Sex <input type="checkbox"/> Male <input type="checkbox"/> Female					
8. Name and address of person to be notified in case of emergency (incl. country code/area code)					
Telephone:			E-mail:		

9. Education (start with last attended institution and work backwards)			
Name of institution and place of study	Major fields of study	Years of study from – to	Degrees
10. List membership of professional societies or other activities in civil, public or international affairs			
11. List any relevant publication you have written (do not attach)			
12. Previous residence in foreign country in relation to applicant's professional or study interest			
Have you participated in any training programme in Sweden before?			
<input type="checkbox"/> yes <input type="checkbox"/> no Name of programme, year _____			

EMPLOYMENT RECORD

In order that your application may be complete, please give details of your duties and responsibilities for each of the posts you have occupied.

A. Present position

Title of your post	Description of your work, including your personal responsibilities
Years of service: from–to	
Type and level of organisation	
Name of supervisor (if any)	
Name and address of employer	

B. Previous position

Title of your post	Description of your work, including your personal responsibilities
Years of service: from–to	
Type and level of organisation	
Name of supervisor (if any)	
Name and address of employer	

Please state briefly the reason for applying to this programme, your main field of interest within the programme and how you hope to benefit from the programme. (Continue on supplementary page if necessary but no more than one page).

CASE STUDY/ENERGY EFFICIENCY PROJECT THAT I AM CURRENTLY INVOLVED IN (PLANNED OR ON-GOING)

Project: _____

(Please attach a one-page summary. A check-list for additional detailed information is available on the course organizer's web-site: www.centek.se)

Confirmation from supervisor:

This is to confirm that the applicant will have access to information relevant to the energy savings project listed above and needed for use in the applied project work which constitutes an essential part of the training.

Signed:

Title:

LANGUAGE REQUIREMENT

English certification does not have to be carried out if any of the following is applicable:

- English is my mother tongue or official language of the country.
- English is my working language (please enclose statement from management)
- Carried out higher academic education (min 6 months) where English was the medium of instruction (please enclose copy of certificate)

CERTIFICATE OF THE ENGLISH LANGUAGE

Not required if any of the conditions at the bottom of page 3 apply

Name of candidate _____	
ABILITY TO UNDERSTAND <input type="checkbox"/> Understands without difficulty when addressed at normal rate <input type="checkbox"/> Understands almost everything, if addressed slowly and carefully <input type="checkbox"/> Requires frequent repetition and/or translation of words and phrases	ABILITY TO SPEAK <input type="checkbox"/> Speaks fluently and accurately and is easily intelligible <input type="checkbox"/> Speaks intelligibly, but is not fluent or altogether accurate <input type="checkbox"/> Speaks haltingly, and is often at a loss for words and phrases
ABILITY TO WRITE <input type="checkbox"/> Writes with ease and accuracy <input type="checkbox"/> Writes slowly and with only a moderate degree of accuracy <input type="checkbox"/> Writes with difficulty and makes frequent mistakes	READING ABILITY AND COMPREHENSION <input type="checkbox"/> Reads fluently, with full comprehension <input type="checkbox"/> Reads slowly, but understands almost everything <input type="checkbox"/> Reads with difficulty, and only with frequent recourse to a dictionary
Language test administered by: _____	
Title: _____	
Address and Telephone: _____	
Date and signature: _____	

MEDICAL STATEMENT

<input type="checkbox"/> I do not have any infectious diseases (for example tuberculosis or trachoma) or any other illnesses which could present risks to persons that I will come in contact with.
<input type="checkbox"/> I do not have any medical conditions which prevent me from carrying out training away from home.
<input type="checkbox"/> I am in good health and enjoying full working capacity.
Comment: _____

Information to all applicants according to the Swedish Personal Data Act:

Upon confirmation that your application have been accepted, the personal information that your have given in this application will be used by the Programme Organiser in administering the Programme, Your personal data will also be available to Sida for internal use. The data will not be used for other purposes. If you want a record of field personal information you must send a written request to Mr Tomas Törn, ITP, SE-105 25 Stockholm, Sweden or tomas.torn@sida.se

Signature of Applicant

I certify that my statement in answer to the foregoing questions is true, complete and correct to the best of my knowledge and belief.
If selected as a participant I undertake to spend the time during the period of the programme as directed by the programme management.

Date _____

Signature of Applicant _____

If you are selected, you will be notified by e-mail. **Please confirm your acceptance to attend by e-mail.**

Week 5

- Implementing projects
- Financing of energy efficiency projects
- Case studies/project work
- Plants and site visits

Programme Structure

Date and Place

May 12–June 13, 2008 in Luleå, Sweden.

Teaching

The course will include lectures, discussions in small groups, study visits and case studies. All participants will work on actual energy savings projects and selected applicants will be requested to present planned or on-going projects in their respective organisations. The teaching draws upon experiences from industry and successful applications in Sweden and internationally. Much time is devoted to groupwork with the participants' own projects guided by expert supervisors.

The course is demanding and requires the participants to be active and attend the entire programme.

Management and Staff

The programme is managed by a team of experts with many years of experience from international training within the subject area.

Lecturers are drawn from the University's permanent staff, expert consultants and specialists from the industry.

Participation

Target Region:

Africa, Asia, Latin America, Middle East/North Africa, Balkan Region.

Target Group:

The programme will admit a total of 25 participants from energy intensive industrial plants (e.g. mining and metallurgy, pulp and paper, chemical and process industries). Candidates should be engineers and responsible for production, energy or maintenance matters in these industries. Consultants working with demand side energy efficiency and conservation in the industry are also invited to the programme as well as experts and specialists from relevant authori-

ties and institutions responsible for energy issues in industry. The programme is **not** designed for power utilities and electricity distribution management.

Professional and Academic Requirements

The candidate should hold a university degree at least equivalent to a B.Sc. within a relevant study area (eg. mechanical, electrical or chemical engineering or similar related subjects) and have a few years working experience in a management position. **The successful applicant should provide details and facts on planned energy efficiency projects that he/she is currently involved in and which could be used as references and case studies in the course.**

Language Requirements

A high proficiency in the English language is requested. The applicant must have access to and be able to work with computers.

Due to the character of the programme family members are not allowed to accompany participants to the programme.

Application Process

**Closing date for application is
December 14, 2007.**

Applications submitted after closing date will not be considered.

Application should be written on the special form attached and include a recent photograph and required information and documents.

An English language test should be made with an official body in the home country of the applicant, unless the applicant can provide other documentation to support her/his ability.

The Swedish Embassy/Consulate does not carry out language tests but may be able to recommend appropriate language institutes for conducting tests.

When necessary, the application should be approved by the official nominating authority in the country.

The application should in most cases be submitted to the nearest Swedish Embassy.

If there is no Swedish Embassy in the applicant's country, the application should be submitted directly to Program Secretariat. Applicants will be notified by e-mail if accepted or not. Once accepted, the applicant must confirm participation. An invitation letter will be sent out, containing additional information on the programme and the practical arrangements.

Cost of Participation

The cost of the programme is divided between a participation fee and accommodation cost. The participation fee covers all training cost such as lectures, literature, documentation, study tours and certain social activities as well as accommodation costs include board and lodging. The Swedish International Development Cooperation Agency (Sida) will cover these costs.

International travel cost to and from Sweden will not be covered by Sida.

Personal expenses are not included.

Accommodation

In Luleå all participants will be accommodated in a student residence located within the campus area of Luleå University. The training center as well as other facilities and services are within walking distance from the accommodation. Each participant will have his/her own single room with shower/bath and a fully equipped kitchen for cooking. Facilities for washing of clothes are also available.

Visa

Participants are responsible for obtaining all visas necessary for their journey and stay during the training programme. The visa should be valid for the whole period of the programme and the passport should be valid for three months longer than the entry visa. Inquires should be directed to respective Swedish Embassy/Consulate alternatively other Schengen representation as soon as possible after acceptance into the programme. Participants visiting other countries on their way to or from Sweden must ensure that correct visas are obtained before leaving

home country, especially for countries not included in the Schengen agreement.

The costs for obtaining visas are carried by the participant.

For more information, this website offers Swedish visa information:

<http://www.migrationsverket.se/english.html>

Insurance

All participants are covered by a group insurance while in Sweden and on organised tours during the programme. This insurance includes costs for medical care in the event of acute illness or accident. Medical and dental check-ups are not included.

Contact information

The address for all communication is:

CENTEK, Aurorum Science Park

SE-977 75 Luleå, Sweden

Fax: +46 920 990 20

E-mail: ee@centek.se

Web site: www.centek.se

Programme Manager:

Sven-Erik Österlund

Telephone: +46 920 491842

Programme co-ordinator:

Aksel Österlöf

Telephone: +46 920 491876



*Programme Manager:
Sven-Erik Österlund*



*Programme co-ordinator:
Aksel Österlöf*

Presentation of Programme Management and Secretariat

CENTEK – International Training and Development Centre at Luleå University is an organization founded by the university and the regional municipalities. CENTEK is offering continuous education programmes for industry and society, using the university as a resource base. The training programmes cover a wide range of subjects and span from short seminars to complete MSc-programmes.

Luleå University is one of twelve universities in Sweden having a fully developed research organization. Research is primarily connected with the mechanical engineering industries, mining and mineral processing industries, computer and electronic industries, building and construction industries. Undergraduate education is given primarily in the fields of engineering, business administration, economics and education.



Halving poverty by 2015 is one of the greatest challenges of our time, requiring cooperation and sustainability. The partner countries are responsible for their own development. Sida provides resources and develops knowledge and expertise, making the world a richer place.



SWEDISH INTERNATIONAL
DEVELOPMENT COOPERATION AGENCY

Division for International Training Programmes

SE-105 25 Stockholm Sweden

Phone: +46 (0)8 698 50 00

Fax: +46 (0)8 20 88 64

sida@sida.se, www.sida.se