



International Atomic Energy Agency

Master's and Doctoral Degree Programmes in Nuclear Science and Technology

HARBIN ENGINEERING UNIVERSITY (HEU)

People's Republic of China

PROSPECTUS

- Project no and Title:** **Atomic Energy Scholarship of China (Harbin Engineering University)**
- Date:** Master's degree programme: September 2018 – July 2021 (3 years)
Doctoral degree programme: September 2018 – July 2022 (4 years)
- Event Numbers:** **EVT1801253** (Master's degree programme, 3 years)
EVT1801254 (Doctoral degree programme, 4 years)
- Deadline for nominations:** **15 March 2018**
- Languages:** English (All documents and discussions will be conducted in English).
- Organizers:** The International Atomic Energy Agency (IAEA) in cooperation with China Atomic Energy Authority (CAEA) and Harbin Engineering University (HEU).
IAEA:
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- Host Country Organizer:** Ms. Hua YIN, Project Officer of International Office, Harbin Engineering University, Tel.: +86 451 82568266, 82568218, Email: heufao@hrbeu.edu.cn, 145, Nantong Street, Nangang District, Harbin, 150001, P.R.China

Purpose:	The purpose of the three-year Master's degree programme of Nuclear Science and Technology and four-year Doctoral degree programme of Nuclear Science and Technology are to provide prospective future personnel of nuclear power programmes in the Member States with technical knowledge and skills required for a safe, secure and sustainable nuclear power programme.
Expected Output:	An increased number of qualified nuclear engineers with solid knowledge and expertise in the fundamental aspects related to developing, operating and regulating a safe and secure nuclear power programme.
Scope and Nature:	Harbin Engineering University (HEU) is an educational institute established to cultivate the next generation of professionals in planning, design, construction, operation and management of nuclear power plants (NPPs).
Background:	The China Atomic Energy Authority (CAEA) and the Ministry of Education of China jointly initiate the program of Atomic Energy Scholarship of China (AES Programme in short) for the purpose of providing financial support to outstanding students, technicians and administrators from emerging nuclear power countries. Harbin Engineering University is entrusted to be responsible for this training program. The AES Programme will be guided by the demands of the international community, in order to cultivate applied talents for the target of nuclear power, relying on the international nuclear disciplines personnel training platform, using Diversity and Double Supervisor personnel training mode. Harbin Engineering University is the first program to have passed the Nuclear Engineering Education Accreditation in China.
Target Countries:	Algeria, Argentina, Armenia, Bangladesh, Belarus, Bolivia, Brazil, Bulgaria, Chile, Czech Republic, Egypt, Ghana, Hungary, Indonesia, Iran, Jordan, Kazakhstan, Kenya, Lithuania, Malaysia, Mexico, Morocco, Niger, Nigeria, Pakistan, Philippines, Poland, Romania, Saudi Arabia, Senegal, Slovakia, South Africa, Sri Lanka, Sudan, Thailand, Tunisia, Turkey, UAE, Uganda, Viet Nam and Zambia.
Participation:	The Master's and Doctoral degree programmes in Nuclear Science and Technology are open to 40 participants (25-30 Master's degree and 10-15 Doctoral degree) from the target countries that need assistance to enhance the number of staff involved in launching or expanding nuclear power programmes.
Participants' Qualifications And experience:	The Master's or Doctoral degree programme in Nuclear Science and Technology are for junior or senior professionals in the target countries involved in the development of new or expanding nuclear power programmes. Ideally, these individuals should represent the nuclear energy programme implementing organization, owner/operator organization, regulatory body or relevant technical support organization. Applicants should include a description of their current and future role in the nuclear power programme, as

well as how this education will support the overall objectives of the programme. Applicants need to be supported by their institution and meet the following criteria:

- Master's degree/Doctoral degree programme requires the applicant need to hold a bachelor's degree/master's degree or its equivalent in sciences and/or engineering from a recognized university (bachelor's/master's degree holder of other areas with working experiences in policy making for national energy supply or nuclear energy applications could also apply).
- Preferably one (1) year practical working experience.
- Possess a proficiency in English (spoken, written and reading) enabling them to read and express themselves in this language without difficulty.

**Nomination
Procedure:**

Nominations should be submitted to the IAEA online through the Technical Cooperation Department's In Touch+ system (<http://intouchplus.iaea.org>) for event **EVT1801253 or EVT1801254**. Should this not be possible, nominations may be submitted on the standard IAEA Application for Fellowships with reference to **EVT1801253 or EVT1801254** Completed forms should be endorsed by relevant national authorities and returned to the Agency through official channels, i.e. the office of the National Liaison Office.

Applications must be received by the International Atomic Energy Agency, P. O. Box, A-1400 Vienna Austria, not later **than March 15, 2018**. Nominations received after this date or which have not been routed through the established official channels cannot be considered.

Advanced nominations by facsimile (+43-1-260007) or e-mail to (Official.Mail@iaea.org) are welcome. The facsimile/e-mail should contain the following basic information about the candidate(s): name, age, gender, academic qualifications, and present position including exact nature of duties carried out, proficiency in English, and full working address (including telephone and fax numbers, and e-mail) to enable the IAEA to make preliminary evaluation of and to communicate with the candidates.

**Application
Procedure for
HEU:**

To apply to Atomic Energy Scholarship of China, applicants should have earned a bachelor's/master's degree or its equivalent in sciences and/or engineering. This, however, does not discourage bachelor's degree/master's degree holders in other field areas with working experiences in policy making for national energy supply or nuclear energy applications.

[Application to HEU and additional information on eligibility and guidelines on the application process can be found on the website: http://studyheu.hrbeu.edu.cn.](http://studyheu.hrbeu.edu.cn)

Applications must be submitted directly and independently by the candidate through the above-mentioned website.

IAEA will give priority consideration to those candidates who fully meet or exceed the application requirements.

**Training on
Basic Security in
The Field
(BSITF):**

In order to comply with UN system-wide security measures, it is *recommended* for all IAEA selected participants to have successfully completed the course “Basic Security in the Field: Safety, Health and Welfare” prior to travelling to attend any training course. The aim of the course is to educate participants on how best to avoid or minimize potential dangers and threats, and to show what individuals can do if they find themselves in insecure situations.

The course is available online through the IAEA specific website:

- BSITF, ASITF: <https://training.dss.un.org/courses/login/index.php>

Successful completion of the course is mandatory for the attendance at any training course or meeting sponsored by the IAEA. Upon successful completion of the exam, the system will generate automatically a certificate stating that the candidate has passed the exam and must be printed for submission to the IAEA (either as an e-mail attachment or by fax). This certificate is compulsory for any IAEA-supported activity and should be submitted along with the Nomination Form through the competent authority in your country (NLO). This will avoid last minutes intense preparation from your side as we will not authorize any provision of air tickets or stipends, nor security clearance for individual participant without the timely submission of the certificate. Copies of the certificate should be kept by the candidate for his/her records, as they are valid for a period of three years.

**Administrative
And Financial
Arrangements:**

Nominating Governments will be informed in due course of the names of the selected candidates and will, at that time, be given full details on the procedures to be followed with regard to administrative and financial matters. Participants selected by the IAEA for the stipend from countries eligible to receive technical assistance will also be provided with a round-trip economy class air ticket from their home countries to Harbin, People’s Republic of China and insurance coverage. Please note that selected participants will not be eligible to apply for **funded** temporary assignment at HEU during the duration of the Master’s/Doctoral Degree Programme. It is noted that AES Programme will provide these IAEA selected candidates with funding to cover tuition fees, accommodation for single participants, and monthly living expense. Shipment of accumulated master’s/doctoral degree programme materials to the participants’ home countries is not the responsibility of the IAEA nor HEU. Final admission to the master’s/doctoral degree programme will be decided by HEU according to its academic admission criteria.

The organizers of the master’s/doctoral degree programme do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property or from illness, injury, disability or death of a participant while he/she is traveling to and from or attending the

master's/doctoral degree programme, and it is clearly understood that each Government, in nominating participants undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.