

Criteria for Award of Postgraduate Degrees in Nuclear Science and Technology (NST)

Article 1 The Requirements for the Study and Training Process of Postgraduates in Nuclear Science and Technology (NST) is formulated upon discussion and decision by the NST Degree Subcommittee pursuant to the Implementing Regulations of USTC for Award of Master's and Doctoral Degrees and relevant instructions of USTC on the training of postgraduates.

Article 2 Requirements for the Study and Training Process of Postgraduates in Nuclear Science and Technology

2.1 Course requirements: The applicant for a master's or a doctoral degree must fulfill the course requirements specified in their program.

2.2 Evaluation of dissertation prospectus: The dissertation prospectus and the evaluation meeting are an integral part of the doctoral program. The doctoral dissertation prospectus should be scheduled by the Supervisor according to the research progress of the candidate and organized by the department generally in the third or the fourth semester of the doctoral studies. And the prospectus should be vetted by a committee of no less than five experts in the discipline or relevant disciplines (at least three of whom normally shall be doctoral supervisors with a senior professional title or above), and must be approved by no less than two-thirds of the committee members.

The prospectus of master's thesis should be scheduled by the Supervisor according to the research progress of the candidate and organized by the department generally in the third or the fourth semester of the master's studies. And the prospectus should be vetted by a committee of no less than three experts in the discipline or relevant disciplines (who shall have an associate senior professional title or above), and must be approved by no less than two-thirds of the committee members.

2.3 Mid-term examination: The mid-term examination and evaluation process of a doctoral dissertation is an integral part of the doctoral program. A mid-term

examination should be organized by the department shortly after the dissertation prospectus, or in the following semester afterwards. Members composed the mid-term examination committee should equally satisfy the requirements for a prospectus committee. The doctoral candidate who fails the mid-term examination may apply for another one in the next semester.

2.4 Academic lectures: Throughout the duration of the doctoral program, a doctoral candidate should attend at least 10 academic symposiums and submit his/her summary to the Supervisor and the Registrar's Office within three days after the symposiums; in addition, the candidate should give at least one public academic presentation and promptly submit his/her supporting materials as well.

During the master's program, a candidate should attend at least 3 academic symposiums and submit his/her summary to the Supervisor and the Registrar's Office within three days after the symposiums.

2.5 International academic exchange: Prior to applying for a doctoral degree, the candidate should have international academic exchange experience, such as attending international academic conferences, visiting overseas research institutions, working in collaborative research projects, or participating in joint training programs, etc. Upon completing an international academic conference or short-term overseas study visit, the doctoral candidate should immediately submit a summary of report to the Supervisor and to the Registrar's Office for filing.

Article 3 Requirements for Academic Achievements of Postgraduates in Nuclear Science and Technology

3.1 Prior to applying for a doctoral degree, a candidate shall have, as the first author (without counting the Supervisor), at least two high-level academic papers related to the dissertation published or accepted for publication by foreign or domestic journals with USTC as the first signed institution, at least one of which published in an international English journal.

3.2 Prior to applying for a master's degree, a candidate shall have, as the first author (without counting the Supervisor), at least one research papers related to the thesis published or accepted for publication by foreign or domestic journals with USTC as

the first signed institution.

3.3 To apply for a degree, a paper with the applicant as the second co-first author published in an English journal with high influence (to be recognized by the degree subcommittee of the department), is equal to a paper published in an international English journal, but such a substitute paper can only be used for once.

3.4 The international conference paper used for doctoral degree application must be retrievable, and the international conference paper used for master's degree application must be collected in a proceeding with an ISBN number.

3.5 Any one of the following academic achievements is equal to a paper published in a domestic journal:

1.The candidate has won a national award for scientific research achievement (ranked among the top five achievers) or a provincial or ministerial-level award for scientific research achievement (ranked among the top three achievers);

2.The candidate has an academic monograph published (among the top three authors and independently contributed a total of more than 25,000 words);

3.The candidate has involved in a high-tech research and published an international conference paper (retrievable) as the first author;

4.The candidate has an invention patent granted as the first achiever (without counting the Supervisor).

3.6 If the candidate fails to meet the requirement for paper publication mentioned above but has independently made academic achievements with great creativity in scientific research, upon proposal by the Supervisor and recommendation by three experts in the field, he/she may be deemed to satisfy the requirement for scientific research achievements after it is approved by at least two-thirds of degree subcommittee members.

3.7 A candidate shall not change the authors' order and the signing institution of any accepted paper used for degree application before it is officially published; otherwise serious action will be taken or the degree revoked.

Article 4 Spot-check of thesis and dissertation: the sub-committee shall carry out a spot check on theses and dissertations that have been successfully defended within the last one year and send them to experts for review.

Article 5 In view of the fact that the research fields of this discipline intersect with physics, chemistry, biology, materials science, information science and other disciplines, any academic paper related to the thesis or dissertation published or accepted for publication by the journals recognized by the related degree subcommittee and approved by the USTC Degree Committee can be submitted to the NST degree subcommittee for discussion and recognition.

Article 6 The criteria shall be implemented from the January 2021.

Catalog of Domestic Journals

Serial Number	The Title of Journal	Serial Number	Sponsor
1	核技术	0253-3219	中国科学院上海应用物理研究所
2	核科学与工程	0258-0918	中国核学会
3	核电子学与探测技术	0258-0934	中核（北京）核仪器厂
4	中华放射医学与防护杂志	0254-5098	中华医学会
5	辐射防护	1000-8187	中国辐射防护学会
6	核聚变与等离子体物理	0254-6086	核工业西南物理研究院
7	核化学与放射化学	0253-9950	中国核学会核化学与放射化学学会
8	辐射研究与辐射工艺学报	1000-3436	中国科学院上海应用物理研究所
9	核电工程与技术		上海核工程研究设计院
10	核安全	1672-5360	国家环保总局核与辐射安全中心
11	原子核物理评论	1007-4627	中国科学院近代物理研究所 中国核物理学会
12	系统仿真学报	1004-731X	中国系统仿真学会 航天科工集团 706 所
13	中国医学物理学杂志	1005-202X	中国医学物理学会
14	计算机仿真	1006-9348	中国航天科工集团公司第十七研究所
15	中国医学影像技术	1003-3289	中国科学院声学研究所
16	计算机应用	1001-9081	中国科学院成都计算机应用研究所
17	中国物理 C	1674-1137	中国物理学会；中国科学院高能物理研究所；中国科学院近代物理研究所
18	强激光与粒子束	1001-4322	中国工程物理研究院；中国核学会；四川省核学会
19	原子能科学技术	1000-6931	中国原子能科学研究院
20	光子学报	1004-4213	中国科学院西安光学精密机械研究所、中国光学学会
21	现代应用物理	2095-6223	西北核技术研究所;国防工业出版社

Serial Number	The Title of Journal	Serial Number	Sponsor
22	电子设计工程	1674-6236	西安市三才科技实业有限公司
23	核动力工程	0258-0926	中国核动力研究设计院
24	中国科学技术大学学报	0253-2778	*University of Science and Technology of China
25	Nuclear Science and Techniques	1001-8042	中国科学院上海应用物理研究所
26	Radiation Detection Technology and Methods	2509-9930	核电子学与核探测技术分会和中国科学院高能物理研究所