

Application Requirements for an Academic Degree in Earth and Environmental Sciences

I. To apply for a Ph.D., students are required to pass a pre-qualification assessment and to meet one of the following requirements:

1. An acceptable dissertation based on original research in Earth and Environmental Sciences. The dissertation must be reviewed and approved by a committee¹ with at least five international researchers.
2. At least one related research paper, with the School of Earth and Space Sciences /department as the first affiliation, published or accepted by a first-class journal, or at least two papers by second-class journals². The candidate must be the first author in at least one paper published or accepted by an English-language journal. In the case of two papers from second-class journals, the candidate should be either the first author of the other paper, or the second author if the Supervisor of the candidate is the first author.
3. At least one patent, which is related to the dissertation, granted with USTC as the first patentee and the candidate as the first inventor (or the second inventor if the Supervisor is the first inventor), and one research paper, which is related to the dissertation and with the school/department as the first affiliation, published or accepted by a second-class English language journal.
4. Major achievements or special contributions related to the dissertation during his or her doctoral research. In this case, the Supervisor of the candidate may submit a written application to the degree subcommittee, and at least three well-known domestic or foreign experts in the relevant field shall issue a letter of recommendation to prove the contributions of such achievements. The degree subcommittee will decide whether the candidate is eligible to apply for a doctoral degree.

¹ The Supervisor and the doctoral program unit shall jointly form a pre-qualification assessment committee consisting of at least three professors (or associate professors for master's degree application) from the discipline and file on record with the degree subcommittee.

² By default, SCI journals in JCR Zone Q2 or above over the last five years are categorized as first-class; those in JCR Zone Q3, the second-class. Please refer to the attached catalog of journals for other specified first- and second-class journals.

II. An M.Sc. candidate is eligible to apply for a master's degree after having passed the internal assessment by the pre-qualification assessment committee. To apply for a master's degree, an M.Sc. candidate who has been involved in less than three academic years of study must have at least one first-author research paper, with the school/department as the first affiliation, published or accepted by a second-class journal (or the second author if the Supervisor of the candidate is the first author).

III. The same dissertation requirements apply to foreign students.

IV. An academic research paper that is related to the dissertation or thesis has been published or accepted by an equivalent-level journal (recognized by any other degree subcommittee of USTC) may be used for degree application after discussion and approval by the degree subcommittee.

V. The application requirements above are effective on June 1, 2021.

Catalog of First-class Journals

Serial Number	Title of Journal	Serial Number	Sponsor
1	Advances in Atmospheric Sciences	0256-1530	中国科学院大气物理研究所
2	Antarctic Science	0954-1020	British Antarctic Survey
3	Applied Optics	1559-128X	Optical Society of America
4	Climate research	0936-577X	Inter-Research Science Publisher
5	European Journal of Mineralogy	0935-1221	Mineralogy Association of Europe
6	Physics of Plasmas	1070-664X	American Institute of Physics
7	Quaternary International	1040-6182	International Union for Quaternary Research
8	Review of Scientific Instruments	0034-6748	American Institute of Physics

Catalog of Second-class Journals

Serial Number	Title of Journal	Serial Number	Sponsor
1	Acta Geochimica	2096-0956	Springer
2	Acta Geophysica	1895-6572	Springer
3	Acta Oceanologica Sinica	0253-505X	中国海洋学会
4	Advances in Climate Change Research	1674-9278	国家气候中心
5	Advances in Polar Science	1674-9928	中国极地研究中心、国家海洋局极地考察办公室
6	Annales Geophysicae	0992-7689	European Geoscience Union
7	Applied Geophysics	1672-7975	Springer
8	Arctic	0004-0843	Arctic Institute of North America
9	Earth and Planetary Physics	2096-3955	中国地球物理学会
10	Geochemical Journal	0016-7002	Geochemical Society of Japan
11	Geodesy and Geodynamics	1674-9847	Elsevier

Serial Number	Title of Journal	Serial Number	Sponsor
12	Journal of Environmental Chemical Engineering	2213-3437	Elsevier Ltd.
13	Journal of Meteorological Research	2095-6037	中国气象学会
14	Journal of Nanoscience and Nanotechnology	1533-4880	American Scientific Publishers
15	Journal of Oceanology and Limnology	0254-4059	中国海洋湖沼学会
16	Journal of Tropical Meteorology	1006-8775	广州热带海洋气象研究所
17	Membrane Water Treatment	2005-8624	TECHNO-PRESS, SOUTH KOREA
18	Plasma Science and Technology	1009-0630	中科院等离子体物理研究所
19	Research in Astronomy and Astrophysics	1674-4527	中国科学院国家天文台
20	Water Science and Technology-Water Supply	1606-9749	Iwa Publishing,ENGLAND
21	Earthquake Research Advances	2772-4670	中国地震局
22	Earthquake Science	1674-4519	中国地震学会
23	暴雨灾害	1004-9045	中国气象局武汉暴雨研究所
24	大气科学	1006-9895	中国科学院大气物理研究所
25	大气与环境光学学报	1673-6141	中国科学院安徽光学精密机械研究所
26	地理学报	0375-5444	中国科学院地理科学与资源研究所
27	地球化学	0379-1726	中国矿物岩石地球化学学、中科院广州地球化学研究所
28	地球科学	1000-2383	中国地质大学
29	地球科学进展	1001-8166	国家自然科学基金委员会地球科学部、中国科学院资源环境科学与技术局、中国科学院资源环境科学信息中心
30	地球物理学报	0001-5733	中国地球物理学会
31	地球物理学进展	1004-2903	中国地球物理学会
32	地学前缘	1005-2321	中国地质大学（北京） 北京大学
33	地震地质	0253-4967	中国地震局地质研究所

Serial Number	Title of Journal	Serial Number	Sponsor
34	地震学报	0253-3782	中国地震学会
35	地质科学 (中英文版)	0563-5020	中国科学院地质与地球物理研究所
36	第四纪研究	1001-7410	中国科学院地质与地球物理研究所、中国第四纪科学研究会
37	高校地质学报	1006-7493	南京大学、教育部
38	高原气象	1000-0534	中国科学院寒区旱区环境与工程研究所
39	光谱学与光谱分析	1000-0593	中国光学学会
40	光学学报	0253-2239	中科院上海光机所、中国光学学会
41	环境化学	0254-6108	中国科学院生态环境研究中心
42	环境科学	0250-3301	中国科学院生态环境研究中心
43	环境科学学报	0253-2468	中国科学院生态环境研究中心
44	极地研究	1007-7073	中国极地研究中心、国家海洋局极地考察办公室
45	科学通报	0023-074X	中国科学院和国家自然科学基金委员会
46	矿物学报	1000-4734	中国矿物岩石地球化学学会
47	矿物岩石地球化学通报	1007-2802	中国矿物岩石地球化学学会
48	量子电子学报	1007-5461	中国光学学会基础光学专业委员会、中国科学院安徽光学精密机械研究所
49	煤田地质与勘探	1001-1986	中煤科工集团西安研究院
50	气候与环境研究	1006-9585	中国科学院大气物理研究所
51	气象学报	0577-6619	中国气象学会
52	生态学报	1000-0933	中国生态学会
53	石油地球物理勘探	1000-7210	东方地球物理勘探有限责任公司
54	石油勘探与开发	1000-0747	中国石油天然气股份有限公司勘探开发研究院
55	石油物探	1000-1441	中国石油化工股份有限公司石油物探技术研究院
56	土壤学报	0564-3929	中国土壤学会、中国科学院南京土壤研究所
57	物理学报	1000-3290	中国物理学会、中国科学院物理研究所
58	岩石矿物学杂志	1000-6524	中国地质学会岩石学专业委员会、中国矿物学专业委员会
59	岩石力学与工程学报	1000-6915	中国岩石力学与工程学会
60	应用气象学报	1001-7313	中国气象科学研究院
61	中国环境科学	1000-6923	中国环境科学学会

Serial Number	Title of Journal	Serial Number	Sponsor
62	中国科学-地球科学	1674-7240	中国科学院、国家自然科学基金委员会
63	中国科学技术大学学报	0253-2778	中国科学技术大学
64	地质学报	11-1951/P	中国地质学会
65	湖泊科学	32-1331/P	中国科学院南京地理与湖泊研究所、中国海洋湖沼学会