**ZJU-Hangzhou Global Scientific and Technological Innovation Center**

Youth Talent Excellence Program Candidate Application Form

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| Name of Candidate |  |
| Research Institute (Platform) |  |
| Date of Application |  |

Made by ZJU-Hangzhou Global Scientific and Technological Innovation Center

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| 1. **Personal Information** | | | | | | | | |
| Basic Information | Name | |  | Gender |  | Nationality |  | Photo |
| Date of birth | |  | Highest degree awarded | Graduated from (institution/major) in (yyyy/mm) | | |
| Mobile No. | |  | Email |  | | |
| Main research area | | |  | | | | |
| Current professional & technical position and date of appointment | | |  | | | | |
| Current employer/position | | |  | | | | |
| Personal Profile  (from the start of the undergraduate degree till the time of application; please elaborate if there have been any breaks in studies) | Education background: (starting month/year and ending month/year, name of institution, major, degree, supervisor; please write in reverse chronological order) | | | | | | | |
| Work experience: (starting month/year and ending month/year, country, name of employer, position; please write in reverse chronological order) | | | | | | | |
| **2. Introduction to the Candidate’s Main Academic Achievements (contributions, innovative ideas, and scientific value or socio-economic value, no more than 1000 words)** | | | | | | | | |
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| **3. Main Academic Performances of the Candidate in the Past 5 Years[[1]](#footnote-0)** | | | | | | | | |
| 1) Representative papers and publications in the past 5 years | | | | | | | | |
| Please list any representative academic papers where you are the first author or corresponding author (no more than 10).  Papers: in order of importance, please write the names of all authors (candidate’s name in bold, label corresponding author with \*), title of paper, name of journal, month/year of issue, volume number, page numbers, impact factor[[2]](#footnote-1), and times cited.  Publications: in order of importance, please write the names of all authors (candidate’s name in bold), title of book, place of publication, name of publisher, and individual word count/total word count. | | | | | | | | |
| 2) Main scientific research projects in the past 5 years | | | | | | | | |
| Please list any scientific research projects at or above the provincial-level and ministerial-level that you have presided over or been in charge of.  Name of project, nature and source of project, project funding (in brackets, the actual amount borne by you) (unit: 10,000 yuan), starting month/year—ending month/year, project participants (candidate’s name in bold), role and responsibilities of the candidate. | | | | | | | | |
| 3) Important scientific research awards received in the past 5 years | | | | | | | | |
| Award recipients (**candidate’s name in bold),** name of awarded projects, name of award and level, awarding institution, month and year of award | | | | | | | | |
| 4) In the past 5 years, please provide information on whether you have served as an editorial member of any international journal, held important positions at international academic conferences, or made plenary speeches or keynote speeches at international academic conferences. | | | | | | | | |
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| 5) Patents obtained in the past 5 years | | | | | | | | |
| Name of patent, country of patent grant, patent number, month and year of patent grant, participants **(candidate’s name in bold)** | | | | | | | | |
| 6) Awards and honorary titles | | | | | | | | |
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| 7) Others (e.g. teaching and talent training) | | | | | | | | |
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| **5. Introduction to Research Content** | | | | | | | | |
| Application Stream  (select 1 only) | | 1. Synthetic Biology  □ Bioautomation technology: BioFoundry, full-process automation of cell generation, automated cultivation of advanced cells, high-throughput screening and microfluidic technology  □ BTIT integration: computer-aided biological system design, biological information technology, AI/machine learning, DNA storage  □ Biological system design: gene editing and assembly technology, protein and molecular machines, pathway/circuit engineering, host and community engineering  □ Biomanufacturing: artificial cell factory, renewable resource utilization, compound biosynthesis  □ Life and health: emergency vaccines, smart cells, immunotherapy  □ Agrifood: precision molecular breeding, green pesticide synthesis, artificial food  □ Environmental safety: bioremediation, biosafety and bioterrorism prevention, trace biological detection  2. Molecular intelligence  □ High-throughput automated scientific devices (system integration, equipment customization, high-throughput molecular material synthesis technology, high-throughput analysis technology, microfluidics, etc.)  □ Molecular/material design based on big data and artificial intelligence algorithms (deep learning, natural language processing, knowledge graph, big data analysis and cloud computing, computational chemistry, molecular simulation, etc.)  □Precise synthesis of small organic molecules  □Precision manufacturing of high-performance polymers  □Separation material rational design and precise construction  □Process intelligence modelling and precise amplification  3. “X+AI”  □Machine learning technology: deep learning, meta-learning, adversarial learning, reinforcement learning, etc.  □Natural language processing and knowledge graph technology: scientific literature mining and analysis, large-scale text pre-training, domain knowledge graph construction, graph database, graph neural network, etc.  □Big data processing and cloud computing technology: big data storage, high-throughput data processing, graph computing, cloud service computing  □Biology and Information Cross-Integration Technology (BTIT)  □Chemistry and Information Cross-Fusion Technology (CTIT) | | | | | | |
| Research background, research content, research objectives, etc. | | Give a brief introduction to the research background, objectives, content, progress plan and assessment indicators; no more than 2000 words.  Key Words:  1. Research Background  2. Research Objectives  3. Research Contents  4. Progress Plan  5. Assessment Indicators | | | | | | |
| **6. Candidate’s Requirements for Working Conditions** | | | | | | | | |
| E.g. requirements for research start-up funding, office and laboratory rooms, etc. | | | | | | | | |

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| **7. Candidate Declaration** | |
| I solemnly declare that:  I will abide by the laws and regulations of the People’s Republic of China. I have no criminal records and no records of dishonesty. I will strictly comply with the rules and policies of the ZJU-Hangzhou Global Scientific and Technological Innovation Center. I will not advocate or preach any religion. I will firmly resist Falun Gong and other cult organizations.  The scientific research that I am engaged in complies with academic ethics, and I am responsible for the objective truthfulness of the content and the attached materials.  Candidate Signature:  Date: (yyyy/mm/dd) | |
| **8. Expert Recommendations** | |
| Recommendation (if there is a separate recommendation letter, it can be attached; if there is no recommendation, this section may be left blank):  Referrer (seal and signature):  (yyyy/mm/dd) | |
| Recommendation of research platform/institute | E.g. After expert evaluation and discussion at the meeting of XXXXX platform (research institute), we hereby propose to recommend (name of candidate) to apply for the Youth Talent Excellence Program of ZJU-Hangzhou Global Scientific and Technological Innovation Center.  Signature of the person in charge:  (yyyy/mm/dd) |
| Opinions of the Center | Signature of the person in charge:  (yyyy/mm/dd) |

1. The starting date for the “past 5 years” is January 1 of the five years before the application year. If the current year is 2020, then the starting date would be January 1, 2015. All the “past five years” in this form shall be interpreted as such. [↑](#footnote-ref-0)
2. The impact factor of the journal shall be subject to the latest value. If the impact factor value is lower than 1, there is no need to list the journal. [↑](#footnote-ref-1)