

MTH-3-1

Job-description (Monitoring and risk assessment for persistent organic pollutants)

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| job name | Monitoring and risk assessment for persistent organic pollutants |
| Job performance | <input type="radio"/> Monitoring of persistent organic pollutants <input type="radio"/> Risk assessment for human health |
| Knowledge required | <input type="radio"/> Physico-chemical properties of persistent organic pollutants <input type="radio"/> Understanding of risk |
| Required skills | <input type="radio"/> Sampling of persistent organic pollutants <input type="radio"/> Instrumental analysis of persistent organic pollutants <input type="radio"/> Quality assurance and quality control of analytical results <input type="radio"/> Calculation of human health risk |
| Job performance attitude | <input type="radio"/> Active collaboration and problem solving attitude <input type="radio"/> Work attitude of raising responsibility and safety awareness <input type="radio"/> Efforts and attitudes to understand organizational culture and actively integrate and adapt to it |
| Job Basic Skills | <input type="radio"/> Communication ability <input type="radio"/> Repair ability <input type="radio"/> Problem solving ability <input type="radio"/> Interpersonal skills |
| Required qualifications | <input type="radio"/> Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) |

PHY-3-1

Job-description (Astrophysics Research)

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| job name | Research on Astrophysical Phenomena |
| Job performance | <input type="radio"/> Perform research on general astrophysical topics <input type="radio"/> Can pursue projects based upon the post-doc' s own ideas |
| Knowledge required | <input type="radio"/> general knowledge on physics, astronomy, and astrophysics <input type="radio"/> Preferred in the field of neutrino physics and astrophysics |
| Required skills | <input type="radio"/> Astrophysical data analysis <input type="radio"/> Acquisition of new astrophysical phenomena <input type="radio"/> Writing a scientific paper <input type="radio"/> Communication skill for collaborative projects |
| Job performance attitude | <input type="radio"/> Active collaboration and problem solving attitude <input type="radio"/> Work attitude of raising responsibility and safety awareness <input type="radio"/> Efforts and attitudes to understand organizational culture and actively integrate and adapt to it |
| Job Basic Skills | <input type="radio"/> Communication ability <input type="radio"/> Repair ability <input type="radio"/> Problem solving ability <input type="radio"/> Interpersonal skills |
| Required qualifications | <input type="radio"/> Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) |

Job-description(CHM-3-2)

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|--------------------------|--|
| job name | Manipulation of molecules with optical fields or molecule-surface interaction |
| Job performance | <input type="radio"/> Research on gas phase spectroscopy <input type="radio"/> Reserach on atomic and molecular physics <input type="radio"/> Reserach on molecule surface scattering <input type="radio"/> Reserach on molecular interaction with various fields |
| Knowledge required | <input type="radio"/> gas phase spectroscopy <input type="radio"/> atomic and molecular physics |
| Required skills | <input type="radio"/> laser technology <input type="radio"/> vacuum technology <input type="radio"/> coding with any program language |
| Job performance attitude | <input type="radio"/> Collaboration and good relationship with colleagues <input type="radio"/> Responsibility on research |
| Job Basic Skills | <input type="radio"/> Communication and problem solving |
| Required qualifications | <input type="radio"/> Ph.D. Degree(holders or prospective doctoral candidates until the appointment date) <input type="radio"/> Must have more than 2 SCI publications in relevant fields in the last five years |

CHM-3-3

Job-description (Synthesis of organic compounds for drug discovery)

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| job name | Synthesis of organic compounds for drug discovery |
| Job performance | <ul style="list-style-type: none"> <input type="radio"/> Development of synthesis routes <input type="radio"/> Synthesis of organic compounds, purification, and characterization |
| Knowledge required | <ul style="list-style-type: none"> <input type="radio"/> Understanding of various organic synthetic methodologies <input type="radio"/> Understanding of various spectroscopic methods |
| Required skills | <ul style="list-style-type: none"> <input type="radio"/> Establish synthetic schemes for target compounds <input type="radio"/> Analysis and purification of mixtures by various chromatographic techniques <input type="radio"/> Analysis of structures based on NMR data <input type="radio"/> Appropriate judgment and decision-making ability for safety and efficiency |
| Job performance attitude | <ul style="list-style-type: none"> <input type="radio"/> Active collaboration and problem solving attitude <input type="radio"/> Work attitude of raising responsibility and safety awareness <input type="radio"/> Efforts and attitudes to understand organizational culture and actively integrate and adapt to it |
| Job Basic Skills | <ul style="list-style-type: none"> <input type="radio"/> Communication ability <input type="radio"/> Repair ability <input type="radio"/> Problem solving ability <input type="radio"/> Interpersonal skills |
| Required qualifications | <ul style="list-style-type: none"> <input type="radio"/> Must possess Ph.D. degree in organic synthesis field <input type="radio"/> Must have more than 3 SCI publications in last 5 years |

CHM-3-4

Job-description (Chemical Research Information Center Chemical Curator)

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| job name | Chemical Research Information Center Chemical Curator |
| Job performance | <ul style="list-style-type: none"> - Establishment of the National Chemical Research Information Center - Collecting chemical information and identifying the latest research trends - Chemical-based content production and editing - Collecting information such as research funds, research projects, researchers, etc. - Preparation of an academic conference observer and an interview article with a chemist |
| Knowledge required | <ul style="list-style-type: none"> - Understanding of chemistry in general, such as physical chemistry, inorganic chemistry, organic chemistry, analytical chemistry, etc |
| Required skills | <ul style="list-style-type: none"> - Ability to analyze trends in domestic and foreign chemical research, ability to collect and analyze information |
| Job performance attitude | <ul style="list-style-type: none"> - Objective judgment and logical analysis attitude - Identifying businesses and making creative thinking efforts - Attitude to collect various information - Active collaboration and troubleshooting posture |
| Job Basic Skills | <ul style="list-style-type: none"> - Communication skills, information skills, and problem-solving skills - Ability to write information delivery |
| Required qualifications | <ul style="list-style-type: none"> - Master degree holders or those who are expected to obtain a master's degree before the scheduled date of appointment - Chemical major |