

Evaluation criteria for National Institute for Materials Science (Draft)

The underlined parts are the revised parts.

Research Areas and etc.		Evaluation Criteria	Remark (Related Evaluation/Monitoring Indicator)
Basic research and fundamental research and development related to Materials Science Technology	Functional materials area	○Whether achievements have been created that led to the solution of problems that the country must tackle in the science and technology basic plan	<<Evaluation Indicators>> ●Progress of efforts contributed to solving the problems tackled by the country ●Progress of efforts contributing to new value creation for industrial creation and social change in future ●The results of the efforts of the cooperation between the regions and of the collaboration of universities and industry ●Construction and operational status of the management system that the leadership of the president exerts Etc. <<Monitoring Indicators>> ●Achievements of seeds development research and project research (number of papers, indicators related to the quality of papers (the number of papers with TOP10%, the average impact factor value, etc.)) ●Achievement of public offering type research and industry-university-agency collaboration (number of cooperation institutions, scale) Etc.
	Energy-environmental materials area	○Whether achievements have been created that led to the realization of industry creation and social change “super-smart society” in future	
	Magnetic-spintronic materials area	○Whether infrastructure technology has been accumulated in order to enhance the ability to respond to unknown challenges for the future	
	Structural materials area	○Whether the world’s highest level research and development achievements have been created	
	Nanomaterials area	○Whether research and development management has been achieved properly in order to maximize research and development achievements	
	Advanced materials analysis technology area	○Whether it has been responding appropriately to the requests for measures by the Competent Minister based on Article 7 of the Act on Special Measures (only when the corresponding case occurs)	
	Information integrated materials science research area	Etc.	
Information transmission of research results and utilization	Promotion of public relations and outreach activities	○Whether the initiatives that will gain the understanding towards the society have been actively promoted by clearly explaining about the Materials	<<Evaluation Indicators>> ●Achievement of efforts of improving the understanding and awareness of the activities and

promotion	Information transmission of research results	<p>Science research, the activities of the Institute (NIMS) and the research achievements.</p> <p>○Whether the understanding of research results etc. of the Institute (NIMS) has been advanced or the utilization has been promoted</p> <p>Etc.</p>	<p>research results of the Institute (NIMS)</p> <ul style="list-style-type: none"> •Achievement of the efforts of understanding and utilization to promote the dissemination of research results of the Institute (NIMS) <p>Etc.</p> <p><<Monitoring Indicators>></p> <ul style="list-style-type: none"> •Implementation number of outreach activities to be widely understood by the nation in every area and on every level •Number of presentations at international symposiums and academic societies, and of posted announcements to academic journals <p>Etc.</p>
	Promotion of the use of intellectual property	<p>○Whether intellectual property rights have been properly acquired, managed and utilized</p> <p>○Whether obtained research results have been spread to a variety of application areas</p> <p>Etc.</p>	<p><<Evaluation Indicators>></p> <ul style="list-style-type: none"> •Achievements and etc. of the efforts in the technical transfer with utilizing various collaboration schemes <u>or the supports to the business operator utilizing the results</u> <p><<Monitoring Indicators>></p> <ul style="list-style-type: none"> •Number of application and acquisition of rights of intellectual property in consideration of patentability, marketability and cost-efficiency, and patent royalty revenues •<u>License fee income from the business operator utilizing the results</u> <p>Etc.</p>
Activities as a core institution	Sharing of facilities and equipment	<p>○Whether it is implementing the basic researches and fundamental R&D related to Materials Science Technology in an integrated manner, and also playing</p>	<p><<Evaluation Indicators>></p> <ul style="list-style-type: none"> •Collaboration with research institutions holding shared facilities, etc. and the results of efforts for the

Training of researchers and engineers and the improvement of their qualifications		the core function to strongly lead the innovation as a designated national research and development agency ○Whether it has played a role as a hub function of the network of research institutions, and contributed to	improvement of assistive technology ●Achievement of efforts for training of researchers and engineers and improvement of their qualities
Construction of academic cooperation involved in Materials Science research		raising the level of Japan's Materials Science and Technology along with sharing research facilities and equipment	●Bridging research results to industry and the results of efforts for practical realization
Construction of cooperation with industry related to Materials Science research		○Whether it has contributed to the maintenance and development of the knowledge base to support Japan's Materials Science research by the improvement of training and qualifications of researchers and engineers	●The results of efforts for social needs such as accident investigation and international standardization activities Etc.
Analysis, strategic planning and transmission of information related to Materials Science research		○Whether it has played a role to further enhance academic vitality in the Materials Science research field of our country through the construction of academic cooperation,	<<Monitoring Indicators>> ●Shared number of research facilities and equipment ●Cooperation number with academic institutions ●Number of receiving and dispatching researchers, etc. (applicable total etc. of cross-appointment system)
Other activities as a core institution		○Whether it has aggressively made efforts to build cooperation with industry by bridging research results to industry for practical use ○Whether the Institute (NIMS) has regularly grasped, analyzed, utilized and transmitted the national strategy, the international situation, etc. in order to meet the demands of society for Materials Science research ○Whether investigation cooperation of accidents, etc. requested from public institutions and international standardization activities in the Materials Science field have been properly carried out Etc.	Etc.

* “Evaluation indicator” means the indicators which are used for evaluation/assessment, and “Monitoring indicator” means indicators which are necessary to support for understanding the exact facts to evaluate appropriately/strictly. In the actual application, the appropriate indicators according to the items to be evaluated shall be flexibly selected and set.