「 Robot Industry National Advanced Strategic Technology Designation Demand Survey 」Announcement

’24. 03. 04.(Mon), Korea Association of Robot Industry

□ **Background overview**

* Designating the robot industry as a national high-tech strategic industry and considering designating it as a national high-tech strategic technology to intensively protect and foster it.
* The government (Ministry of Trade, Industry and Energy) is considering designating future cars, defense industry, nuclear power plants, etc. as additional industries in the national high-tech strategic industry development general plan(’23 May).
* In the fourth general plan(’24 Jan) for intelligent robots, the government expressed its intention to establish a support grounding for the robot industry by designating it as a national high-tech strategic industry.

□**Main purpose and aim**

* (Tech choice) Robot items that meet the requirements for national advanced strategic technology designation and discovery of production (mass production) technology (concretization of technology specifications)  
  \* Technology that has a significant impact on national and economic security, such as supply chain stabilization, and a significant national economic effect, such as exports and employment, and a significant ripple effect on related industries.
* (Tech application) Submit in detail according to the official demand survey application form and respond to subsequent deliberation

□ **Implementation plan**

* Demand Survey / survey preparation (End of Feb), Survey (Mid- march), Listening to pros and cons (End of March)

□ **Servey purpose**

* Contribute to national economic security and national economic development by establishing a foundation for sustainable growth of the industry by creating an innovation ecosystem for high-tech strategic industries and strengthening technological capabilities.

□**Target**

* Industries with a high level of technology and a high impact on economic security, such as national economy and supply chain issues such as export employment
* Designate the scope of high-tech strategic industries through designation of advanced strategic technologies  
  ◈ National advanced strategic technology: Technology that has a significant impact on national and economic security, such as supply chain stabilization, and a significant national economic effect, such as exports and employment, and a significant ripple effect on related industries.  
  ◈ National high-tech strategic industry: An industry that researches, develops or commercializes strategic technologies or produces and commercializes products and services based on strategic technologies.
  + After designation of advanced strategic technology, the business department determines the scope of the industry to be supported in consultation with the technology designation department.

 ※ Trend: National high-tech strategic industry scope notice (’24.2.14)

□**Relevant effect(summary)**

 Simultaneously fostering cutting-edge strategic industries and protecting cutting-edge strategic technologies

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| **Training measures** | **Protective measures**  **(regulation + punishment)** |
| ⦁Finance: R&D, investment assistance, talent development, international cooperation  ⦁Administration: Special provisions for preliminary approval, expedited processing of permits and approvals  ⦁Tax system: special tax treatment, levy reduction  ⦁Finance: Credit guarantee  ⦁Solidarity: Cultivating specialized complexes, networking between industry, academia and research institutes | Corporation (Regulation): Approval for export of all results, technology transfer, and mergers and acquisitions of overseas corporations  ⦁Individual (Regulation): Restrictions on job change in the same industry overseas, signing of technology protection contracts, provision of re-employment information after retirement, access to immigration information, etc. <some employees>  ⦁Individual (punishment): Increased imprisonment (5 to 20 years) and fines |

□**Key considerations related to designation**

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| Considerations when designating national advanced strategic technology (Law §11 Ordinance§14) | |
| ① Technologies that have a significant impact on **industrial supply chains and national economic security**  ② Considering market outlook and corporate trends, technology with **great future growth potential**  ③ Technology difficult for companies to easily approach due **to high technical difficulty**  ④ Technology that has **a large ripple effect** on other industries through linkage and convergence with other fields  ⑤ Technology of **great industrial importance**  ⑥ Technology that has **a significant impact on national economic growth**, such as exports and employment  ⑦ **Domestic level and industrialization stage** of the relevant technology  ⑧ **Trade scale** and international market trends of the relevant technology | |
| Effects of national advanced strategic technology designation     ※ Refer to the law for details | |
| <Nurturing> Support for various special cases such as development, R&D, and improvement of regulations reflecting national designation of specialized complexes  <Defense> Protected national advanced strategic technologies are managed as “national core technologies” under the Industrial Technology Protection Act.    ※ Approval of technology exports and overseas mergers and acquisitions, strategic technology leaks, infringements, prohibition and punishment, etc. | |
| National advanced strategic technology application designation procedure plan | |
| * 1. Distribution of application materials | Ministry of Trade, Industry and Energy  → Related ministries, industry-specific cooperative organizations and companies |
| ② Collection and collection of application materials· | 1. Industry-specific associations and enterprises → Ministry of Trade, Industry and Energy 2. Related ministries → Ministry of Trade, Industry and Energy Ministry of Science and ICT |
| ③ Technical Coordination Committee Technical Coordination Committee | Field-specific Private Review → Subcommittee Technical Coordination Committee |
| ④ National High-Tech Strategic Industry Committee | Deliberation and resolution submitted to the National High-Tech Strategic Industry Committee |
| ⑤ Deliberation and resolution submitted to the National High-Tech Strategic Industry Committee | Notification by the Minister of Trade, Industry and Energy |

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