

Abstract

The main purpose of this study is finding out how to innovate and improve 'the statistics for industrial technology talent' in order to clarify the status of the related labor force in Korea and to support the planning and execution of policies for matching the demand and supply of industrial technology talent.

Here we define industrial technology talent as researchers or engineers who engage in the businesses such as companies or institutions with educational attainments equal to and higher than those of college graduate.

The main results of this study are as follows.

Firstly, for improving utilization of existing statistics on policy, it is necessary to reinforce the qualitative approach for the workforce issues and the ties of existing statistics through the way such as unifying the system of classification and etc.

Secondly, statistical analysis of survey results can be achieved in a variety of publicity and public research is enabled by various researchers who are interested in the statistics. These activities would continue to leverage each other to find a way to link the release of statistical data.

Thirdly, in the area of statistics for industrial technology talent in Korea, personal data is most vulnerable. Especially it is necessary to investigate the labor market mobility such as turnover and career development path, etc. To accomplish this, it is necessary to investigate a new individual panel survey for natural science and engineering graduates who become the supply pool of industrial technology talent.

Finally, it is important to make new statistics in terms of qualitative demand such as skill level or training needs. Furthermore, benchmarking practices in the UK, various qualitative interview investigations should be prepared to plan for the new survey planning.