



Provides complex definition up front.

Asks respondents to use that definition when answering the remainder of the questionnaire.

General Instructions
About this survey
1. Definition of research and development
Research is systematic study directed toward fuller knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the investigator.
Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes.
Research and development includes the development and use of scientific knowledge through fundamental research in the laboratory, in the field, or through experiments; clinical investigations; clinical trials; epidemiological, engineering, and demographic studies; and controlled pilot projects. Included in this definition is the preparation for publication of books and papers describing the results of the specific research and development, if carried out as an integral part of that research and development. Also included is the administration of research and development. Traineeships, if they are mainly directed to R&D, are also included.
 Science and Engineering For this survey, science and engineering (S&E) includes: Medical or Health-Related Sciences including Biochemistry, Genetics, Physiology, Cell Biology/Molecular Biology, Pharmacology/Toxicology, Epidemiology, Health Care Sciences and Services, Reproduction, Growth and Development, Oncology/Pathology/Hematology, Immunology, Microbiology/Virology, Biomedical Engineering and Instrumentation, Neuroscience, Clinical Medicine, and other medical or health sciences. Natural and Social Sciences including Agricultural Sciences, Biological Sciences (non-medical), Computer Sciences, Environmental Sciences, Mathematical Sciences, Physical Sciences, Psychology, and Social Sciences. Engineering including Aeronautical and Astronautical, Chemical, Civil, Electrical, Mechanical, Metallurgical and Materials, and other engineering fields.
Science and engineering <i>do not</i> include law, business administration/management science, humanities, history (except research in history and philosophy of science and technology), the arts, or education (except educational psychology).



How many of the nonprofit organizations here would screen out on those questions?

Perhaps an alternative approach to screening would more accurately identify R & D performers.



Alternative Screening Approach

Follow the basic format used in the exploratory interview question sequence to identify whether the organization has performed activities that encompass the R&D definitions.

We provide illustrative but untested examples.

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Alternative Screening Approach

- Continued

- Conducted research and development in the area of medical or healthrelated sciences, such as biochemistry, genetics, reproduction, and clinical medicine?
- Conducted research and development in the area of natural science, such as agricultural science, environmental science, and physical sciences?
- Conducted research and development in the area of social science, such as psychology and social science?
- Conducted research and development in the area of engineering, such as chemical, civil, metallurgical and other engineering fields

Using a web-based instrument, the key terms (research, development, medical or health-related sciences, natural sciences, social science, engineering) can be hot-linked to a definition.



Alternative Screening Approach

This is an untested new approach. Further development and testing is needed.