

SUMMARY OF MAIN RESULTS

GENERAL RESULTS

Organisations surveyed with Research and Development (R&D)

- Private Sector :158
- Government Agencies and Research Institutions : 28
- Institutions of Higher Learning : 9

Expenditure

- Gross Expenditure on Research and Development (GERD) : RM 549.1 million
- The GERD/GDP Ratio : 0.22%

Manpower

- Total R&D Research Personnel : 9,233
- Total Number of Researchers : 4,243
- Degree Holders (PhD, Masters and Bachelors Degree) : 3,936
- Number of Researchers per 10,000 labour force : 5.1
- R&D Cost per Research Personnel : RM 19,513

PRIVATE SECTOR

Expenditure

- R&D Total Expenditure : RM 400.1 million
- R&D Labour Cost : RM 94.0 million
- R&D Capital Cost : RM 192.8 million
- R&D Operating Cost : RM 113.3 million

Manpower

- R&D manpower : 3,245
- Number of Researchers : 1,342

- Number of Supporting Staff : 1,903

Other Indicators

- Largest R&D Industry Group : Service Industries (Research Technical & Consultancy)
- Largest R&D (Field of Research) : Engineering
- Largest R&D (Socio-Economic Objectives) : Manufacturing

GOVERNMENT AGENCIES AND RESEARCH INSTITUTIONS (GRIs)

Expenditure

- R&D Total Expenditure : RM 108.7 million
- R&D Labour Cost : RM 62.9 million
- R&D Capital Cost : RM 20.9 million
- R&D Operating Cost : RM 24.8 million

Manpower

- R&D manpower : 4,231
- Number of Researchers : 1,524
- Number of Supporting Staff : 2,707

Other Indicators

- Largest R&D expenditure by Field of Research : Agricultural Sciences
- Largest R&D expenditure by Socio-Economic Objectives : Plant Productions

INSTITUTES OF HIGHER LEARNING (IHL)

Expenditure

- R&D Total Expenditure : RM 40.4 million

- R&D Labour Cost : RM 22.9 million
- R&D Capital Cost : RM 6.2 million
- R&D Operating Cost : RM 11.3 million

Manpower

- R&D manpower : 1,757
- Number of Researchers : 1,377
- Number of Supporting Staff : 380

Other Indicators

- Largest R&D expenditure by Field of Research : Biological Sciences
- Largest R&D expenditure by Socio-Economic Objectives : Manufacturing

INTERNATIONAL COMPARISONS (Selected Countries)

GERD/GDP Ratio

- Malaysia : 0.22 % ('96)
- Singapore : 1.13 % ('95)
- Japan : 3.0 % ('95)
- USA : 2.54 % ('95)

Number of Researchers per 10,000 Labour Force

- Malaysia : 5.1 ('96)
- Singapore : 48 ('95)
- Japan : 82 ('95)
- USA : 74 ('95)