

Domain Research - Development

In 2015, the R&D expenses represented 0.49% of the GDP PIB¹, of which 0.27% for the public sector and 0.22% for the private sector.

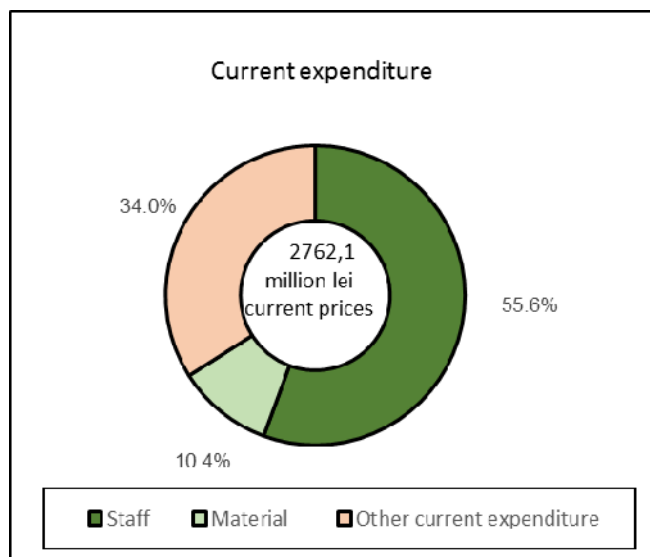
- ***In 2015, Romania spent 3476.9 million lei for the research and development activity.***
- ***At the end of 2015, 43448 employees were involved in the research and development activity, a number slightly higher than that registered at the end of 2014.***

The expenditure with the research and development activity

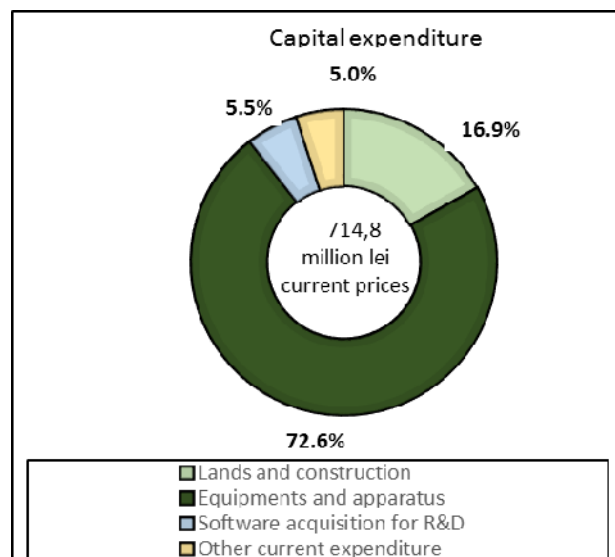
In 2015, 3476.9 million lei were spent on the research and development activity, in its four sectors of performance², of which 2762.1 million were current expenditure, 79.4% respectively and 714.8 million lei were capital expenditure, 20.6% respectively.

Compared to 2014, the weight of the capital expenditure for the endowment of the units that had a research and development activity increased by 7.8 pp in 2015.

The structure of expenditure for research and development, by components, in 2015



[Graph data in .xls format](#)



¹ Provisional data

² See the methodological note

In 2015, the **applied research** expenditure was 50.0% of the total expenditure for the research-development activity, 6.0 pp more compared to the expenditure of 2014.

Compared to 2014, the **basic research** expenditure decreased by 5.3 pp in total expenditure for the research-development activity, from 35.3% to 30.0%. The **experimental development expenditure** decreased by 0.7 pp, from 20.7% to 20.0%.

By **sources of funds** of the research and development total expenditure in 2015, the public funds had the highest weight, 41.7%, respectively, followed by the sources from enterprises 37.3%, respectively.

From public funds, the units in the governmental sector received the largest sums (61.2%), followed by the units in the higher education sector (23.9%). The financing sources for the research and development activity from abroad have been mostly oriented towards the units in the business sector (37.9%), the governmental sector (32.8%) and the higher education sector (29.0%).

**Total research and development expenditure, by sources of funds
and by sectors of performance, in 2015**

- million lei current prices -

Sources of funds/Sectors of performance	TOTAL	Business sector	Government sector	Tertiary	Private
				education sector	non-profit sector
TOTAL	3476.9	1529.8	1330.2	606.5	10.4
Enterprises	1296.6	1063.5	202	30.7	0.4
Public funds	1449.6	209	887.7	346	6.9
Higher education units	59	4.2	19.6	34.5	0.7
Private non-profit	3.2	-	1.5	1.3	0.4
Abroad	668.5	253.1	219.4	194	2

[Table data in .xls format](#)

The **research and development intensity** (calculated as a ratio between the total expenditure with research and development activity and the Gross Domestic Product) increased by 0.10 pp in 2015³ compared to 2014.

³ Provisional data

The employees in the research and development activity

On December 31, 2015, 43448 persons were working in the research and development activity, 19913 of them being women, which represented 45.8%.

The research and development employees, by sectors of performance, in 2015, compared to 2014

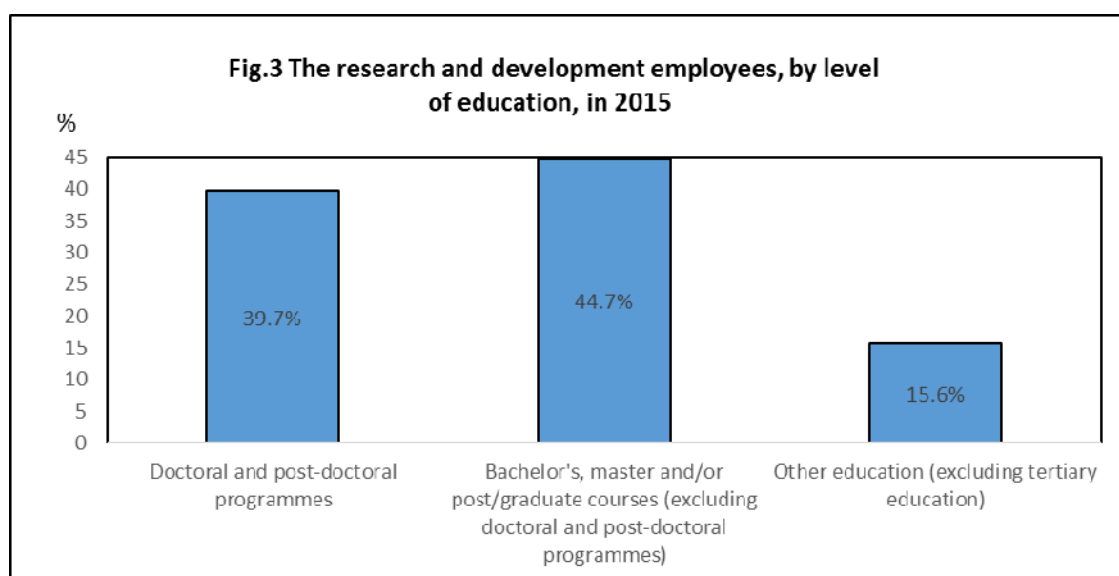
- number at the end of the year -

Sector of performance	2014		2015	
	Employees total	of which: women	Employees total	of which: women
TOTAL	42963	19877	43448	19913
Business sector	11681	4542	11646	4035
Government sector	12555	6125	12621	6242
Tertiary education sector	18517	9119	18883	9488
Private non-profit sector	210	91	298	148

[Table data in .xls format](#)

By **the level of education**, out of the total number of research and development employees, existent at the end of 2015, 36666 had higher education studies (84.4% of the total) and 6782 had other level of education, higher education excluded (15.6%).

In 2015, the number of persons with doctoral and postdoctoral studies who worked in the research and development activity was 17267 persons, a number relatively constant with that of 2014, of which 8350 were women, 48.4%, respectively.



[Graph data in .xls format](#)

Out of the employees who worked in the research and development activity in 2015, by **the effective working hours**, 72.1% had full-time equivalent jobs.

**The research and development employees, by sectors of performance,
in 2015 compared to 2014**

- full-time equivalent -

Sector of performance	2014		2015	
	Employees total	of which: women	Employees total	of which: women
TOTAL	31391	14159	31331	14006
Business sector	10437	3999	10128	3558
Government sector	11866	5826	12080	5973
Tertiary education sector	8966	4288	9008	4416
Private non-profit sector	122	46	115	59

[Table data in .xls format](#)

In 2015, by **occupation**, the highest weight of the research and development employees was that of the researchers, 62.7% of the total, 27253 employees, respectively, 282 employees less compared to 2014. The weight of the category “technicians and similar” was 14.1%, 6126 employees, respectively.

**The research and development employees, by occupation,
in 2015 compared to 2014**

- number at the end of the year -

Employees in the research-development activity	2014		2015	
	Employees total	of which: women	Employees total	of which: women
TOTAL	42963	19877	43448	19913
Researchers	27535	12669	27253	12598
Technicians and similar	5309	2507	6126	2795
Other categories of employees	10119	4701	10069	4520

[Table data in .xls format](#)

Additional Information:

For the accurate interpretation of indicators, kindly see the [Methodological Note attached to the press release on the homepage](#).

For additional information, kindly see the statistical publication “The Research and Development Activity in 2015”, date of issue November 28, 2016.

The archive of the press releases: <http://www.insse.ro/cms/en/comunicate-de-presa-view>

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