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Industry Report Scientific research and development 2018 BULGARIA

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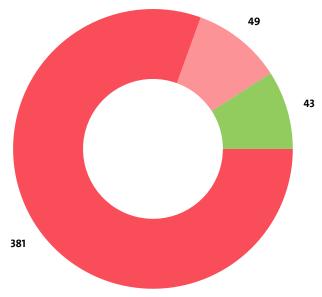
I. KEY INDICATORS

- The Scientific research and development industry in Bulgaria was represented by 473 companies at the end of 2018, compared to 455 in the previous year and 456 in 2016.
- The industry's net profit amounted to BGN 31,612,000 in 2018.
- The industry's total revenue was BGN 321,016,000 in 2018, up by 7.56% compared to the previous year.
- The combined costs of the companies in the Scientific research and development industry reached BGN 284,878,000 in 2018, up by 6.71% year-on-year.
- The industry's total revenue makes up 0.32% to the country's Gross domestic product (GDP) in 2018, compared to 0.31% for 2017 and 0.34% in 2016.
- A total of 3,318 people were employed in the Scientific research and development industry in 2018, compared to 3,039 in 2017 and 2,819 in 2016.
- Most of the companies in the industry are based in Sofia, followed by Plovdiv and Varna.

II. INTRODUCTION

In 2018 the companies in the Scientific research and development industry numbered 473, distributed in 3 sectors.

INDUSTRY STRUCTURE BY SECTORS AND NUMBER OF COMPANIES



Other research and experimental development on natural sciences and engineering

Research and experimental development on social sciences and humanities

Research and experimental development on biotechnology

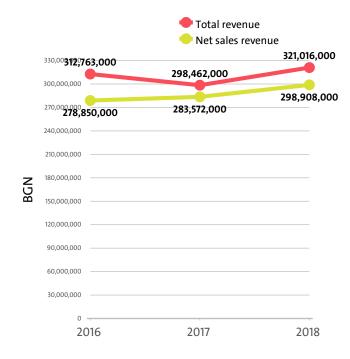
In 2017 there were a total of 455 companies operating in the industry. In 2016 their number totalled 456.

NUMBER OF COMPANIES IN SCIENTIFIC RESEARCH AND DEVELOPMENT INDUSTRY BY SECTORS

SECTOR	2018	2017	2016
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	381	363	358
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	49	40	43
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	43	52	55

III. REVENUES

The total revenue in the industry was BGN 321,016,000 in 2018, BGN 298,462,000 in 2017 and 312,763,000 in 2016.

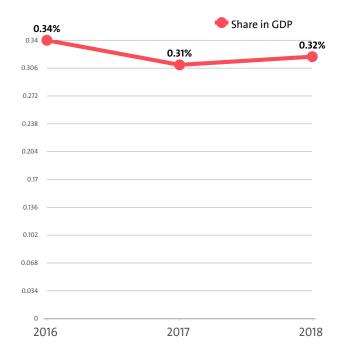


The companies in the Scientific research and development market of Bulgaria earned combined net sales revenues of BGN 298,908,000 in 2018.

In annual terms, sales marked a rise of 5.41% compared to 2017. In comparison to 2016 they grew by 7.19%. In 2017 sales went up by 1.69% year-on-year.

The Scientific research and development industry total revenue make up 0.32% to the country's GDP in 2018, compared to 0.31% for 2017 and 0.34% in 2016.

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In 2018 the Scientific research and development industry contributed to GDP BGN 290,985,000 in Gross value added (GVA) accounting for 0.16% of the total for the country's economy.

In the previous year, the industry's GVA amounted BGN 274,055,000, accounting for 0.16% of the total for the country in 2017. In 2016 the GVA of the Scientific research and development was BGN 291,022,000, or 0.19% of the GVA for the country's economy.

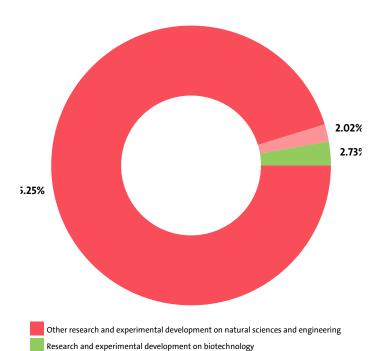
GVA BY SECTORS

RANK	SECTOR	BGN	SHARE OF THE COUNTRY'S GVA (%)
1	OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	276,400,000	0.15
2	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	8,503,000	0.01
3	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	6,082,000	0.00

We expect, based on the trend in the last three years, the total revenue of the Scientific research and development industry to change at a compound annual growth rate (CAGR) of 1.31% in 2019.

Other research and experimental development on natural sciences and engineering contributed net sales revenue of BGN 284,707,000 or 95.25% of the total net sales in the industry, sector Research and experimental development on biotechnology - BGN 8,151,000 (2.73%), and sector Research and experimental development on social sciences and humanities - BGN 6,050,000 (2.02%).





The highest growth, of 52.01%, was recorded by Research and experimental development on biotechnology. There was no industry's sector to report a drop in net sales revenues.

Research and experimental development on social sciences and humanities

TOP COMPANIES' REVENUE BY SECTORS

SEGMENT	COMPANY	TOTAL REVENUE (BGN)	NET SALES REVENUE (BGN)
OTHER RES	SEARCH AND EXPERIMENTAL DEVELOPMENT (NEERING	ON NATURAL S	CIENCES
	PPD BULGARIA EOOD	62,869,000	61,745,000
	IQVIA RDS BULGARIA EOOD	47,092,000	46,415,000
	LB BULGARICUM EAD	21,632,000	20,641,000
RESEARCH HUMANIT	I AND EXPERIMENTAL DEVELOPMENT ON SOC IES	IAL SCIENCES A	ND
	WORLDWIDE CLINICAL TRIALS BUL EOOD	1,231,000	1,227,000
	OGRA EOOD	715,000	703,000
	PROJECT 1 EOOD	709,000	709,000
RESEARCH	I AND EXPERIMENTAL DEVELOPMENT ON BIOT	TECHNOLOGY	
	FIDELIS RESEARCH AD	2,206,000	2,186,000
	ROMB OOD	1,475,000	1,463,000
	TISSUE BANK BIOREGENERATION EOOD	1,255,000	1,242,000

The top 10 companies in terms of total revenue in Scientific research and development accounted for 60.69% of the industry's total in 2018, 64.76% in 2017 and 67.75% in 2016.

TOP 10 COMPANIES BY TOTAL AND NET SALES REVENUE IN THE INDUSTRY

RANK	COMPANY	TOTAL REVENUE (BGN)	NET SALE REVENUE (BGN)
1	PPD BULGARIA EOOD	62,869,000	61,745,000
2	IQVIA RDS BULGARIA EOOD	47,092,000	46,415,000
3	LB BULGARICUM EAD	21,632,000	20,641,000
4	COMAC MEDICAL EOOD	16,479,000	15,698,000
5	PHARMACEUTICAL RESEARCH ASSOCIATES BULGARIA EOOD	16,395,000	16,299,000
6	IVO PETROW - ARCHITECTS OOD	9,298,000	9,017,000
7	R & D SERVICES OOD	5,904,000	5,855,000

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8 CLOUDSIGMA RESEARCH EOOD	5,315,000	5,315,000
9 THETA CONSULT OOD	4,983,000	3,228,000
10 RF AMPLIFIER BG EOOD	4.855.000	4.696.000

The total revenues of the top 10 companies in the Scientific research and development were 0.2% of GDP in 2018, compared to 0.20% for 2017 and 0.23% in 2016.

The top 10 by assets in the Scientific research and development market made up BGN 169,077,000, or 56.56% of the total net sales revenue.

TOP 10 BY TOTAL ASSETS IN THE INDUSTRY

RANK	COMPANY	BGN
1	PHARMACEUTICAL RESEARCH ASSOCIATES BULGARIA EOOD	38,161,000
2	LB BULGARICUM EAD	32,690,000
3	PPD BULGARIA EOOD	30,065,000
4	TECHNOPHOS EAD	21,494,000
5	RESBIOMED OOD	16,955,000
6	COMAC MEDICAL EOOD	13,679,000
7	IQVIA RDS BULGARIA EOOD	12,135,000
8	S D DIZAYN OOD	9,400,000
9	BMM AD	8,944,000
10	ECOSTAR - S EOOD	8,851,000

TOP 10 COMPANIES WITH HIGHEST ANNUAL GROWTH IN OPERATING REVENUE IN SCIENTIFIC RESEARCH AND DEVELOPMENT

RANK	COMPANY	Y/Y GROWTH
1	INDASTRI GRIYNTEH OOD	5325.00%
2	MEDCONSULT 2017 EOOD	4600.00%
3	DICS INTERTRADE OOD	4315.63%
4	SARON EOOD	4250.00%
5	NANOBIOREM OOD	3850.00%
6	ZELENO UPRAVLENIE OOD	2390.00%
7	NEW ENERGY GROUP EOOD	2327.91%
8	VI SI INZHENERING EOOD	1550.00%
9	AQUARIUS ND OOD	1283.72%
10	INTERNATIONAL RESEARCH NETWORK EOOD	1266.67%

TOP 10 COMPANIES BY TOTAL REVENUE IN THE MARKET OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING WERE:

J C. Z. 1 C Z J . 1 C Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	
COMPANY	BGN
PPD BULGARIA EOOD	62,869,000
IQVIA RDS BULGARIA EOOD	47,092,000
LB BULGARICUM EAD	21,632,000
COMAC MEDICAL EOOD	16,479,000
PHARMACEUTICAL RESEARCH ASSOCIATES BULGARIA EOOD	16,395,000
IVO PETROW - ARCHITECTS OOD	9,298,000
R & D SERVICES OOD	5,904,000
CLOUDSIGMA RESEARCH EOOD	5,315,000
THETA CONSULT OOD	4,983,000
RF AMPLIFIER BG EOOD	4,855,000

The 10 largest companies in terms of total revenue in sector Other research and experimental development on natural sciences and engineering earned total revenue of BGN 194,822,000 and accounted for 60.69% of the industry's total revenue.

TOP 10 COMPANIES BY TOTAL REVENUE IN THE FIELD RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES WERE:

OGRA EOOD 7 PROJECT 1 EOOD 70 SOLERY OOD 5 NINETY NINE OOD 50 VITOSHA RESEARCH EOOD 44 ARC CONSULTING EOOD 34 RESEARCH CENTER TREND OOD 28	
OGRA EOOD 77 PROJECT 1 EOOD 70 SOLERY OOD 55 NINETY NINE OOD 50 VITOSHA RESEARCH EOOD 44 ARC CONSULTING EOOD 34 RESEARCH CENTER TREND OOD 28	BGN
PROJECT 1 EOOD 7C SOLERY OOD 5 NINETY NINE OOD 5C VITOSHA RESEARCH EOOD 44 ARC CONSULTING EOOD 34 RESEARCH CENTER TREND OOD 28	31,000
SOLERY OOD 55 NINETY NINE OOD 50 VITOSHA RESEARCH EOOD 44 ARC CONSULTING EOOD 34 RESEARCH CENTER TREND OOD 28	715,000
NINETY NINE OOD 50 VITOSHA RESEARCH EOOD 44 ARC CONSULTING EOOD 34 RESEARCH CENTER TREND OOD 28	09,000
VITOSHA RESEARCH EOOD 44 ARC CONSULTING EOOD 34 RESEARCH CENTER TREND OOD 28	551,000
ARC CONSULTING EOOD 34 RESEARCH CENTER TREND OOD 28	02,000
RESEARCH CENTER TREND OOD 28	47,000
	49,000
COUNTED ENCINEEDING COSTA FOOD	88,000
SCHILLER ENGINEERING-SOFIA EOOD 26	64,000
ZGURA - M EOOD 23	30,000

The 10 largest companies in terms of total revenue in sector Research and experimental development on social sciences and humanities earned total revenue of BGN 5,286,000 and accounted for 1.65% of the industry's total revenue.

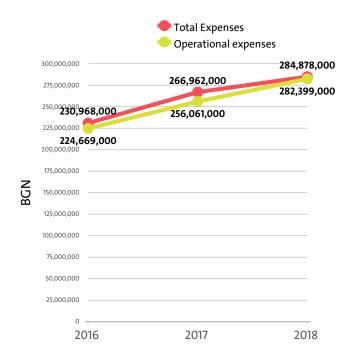
TOP 10 COMPANIES BY TOTAL REVENUE IN THE FIELD RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY WERE:

COMPANY BO	
FIDELIS RESEARCH AD	2,206,000
ROMB OOD	1,475,000
TISSUE BANK BIOREGENERATION EOOD	1,255,000
MEGAKORN - T EOOD	772,000
HT RESEARCH BG EOOD	589,000
BIO TREE OOD	361,000
SYMBIOTECH OOD	347,000
GRADIENT BULGARIA EOOD	318,000
E P S EKO POLIMERNI SISTEMI EOOD	270,000
PROTEY M EOOD	224,000

The 10 largest companies in terms of total revenue in sector Research and experimental development on biotechnology earned total revenue of BGN 7,817,000 and accounted for 2.44% of the industry's total revenue.

IV. EXPENSES

The combined costs of the companies in the Scientific research and development industry reached BGN 284,878,000 in 2018.



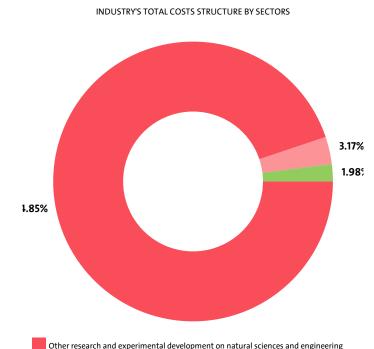
In annual terms, total expenses rose by 6.71% compared to 2017 and rose by 23.34% in comparison to 2016.

The total operating expenses of the companies in the Scientific research and development industry were BGN 282,399,000 in 2018.

Operating costs went up by 10.29% compared with the previous year and went up by 25.70% when compared to 2016.

We expect, based on the trend in the last three years, the total costs of the Scientific research and development industry to change at a compound annual growth rate (CAGR) of 11.06% in 2019.

Other research and experimental development on natural sciences and engineering reported the highest total costs, of BGN 270,207,000, followed by Research and experimental development on biotechnology with BGN 9,043,000 and Research and experimental development on social sciences and humanities with total costs of BGN 5,628,000.



Research and experimental development on biotechnology marked the highest annual increase in total expenses, of 54.90%.

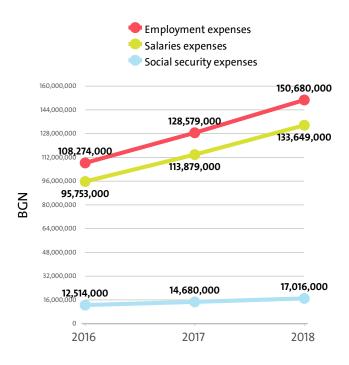
Research and experimental development on social sciences and humanities

Research and experimental development on biotechnology

In terms of operating expenses, the highest growth, of 56.78%, was recorded by the Research and experimental development on biotechnology sector.

The biggest spenders in the industry, with costs of over 10% of industry's costs, numbered 6, including IQVIA RDS BULGARIA EOOD, IVO PETROW - ARCHITECTS OOD, PPD BULGARIA EOOD, COMAC MEDICAL EOOD, LB BULGARICUM EAD. The medium spenders, or those in the 5% and 10% range count 5 and include TECHNOPHOS EAD, CLOUDSIGMA RESEARCH EOOD, R & D SERVICES OOD, THETA CONSULT OOD, ARC METROLOGIA OOD. Below 5% threshhold are 462 companies, including SMART SOLAR SISTEMS OOD, AR END DI BULGARIA EOOD, OPITNA STANTSIYA PO POLIVNO ZEMEDELIE - PAZARDZHIK, INSTITUT PO HIDRAVLIKA EOOD, KLAUD BEYSIK BULGARIA EOOD.

Employment expenses in the Scientific research and development industry went up by 17.19% on the year to BGN 150,680,000 in 2018.



The highest growth in labour costs, of 49.71%, was registered by Research and experimental development on biotechnology.

The monthly costs per employee in the Scientific research and development industry averaged BGN 3,784 in 2018, BGN 3,526 in 2017 and BGN 3,201 in 2016.

The monthly social security costs per employee in the industry averaged BGN 427 in 2018, versus BGN 403 in 2017 and BGN 370 in 2016.

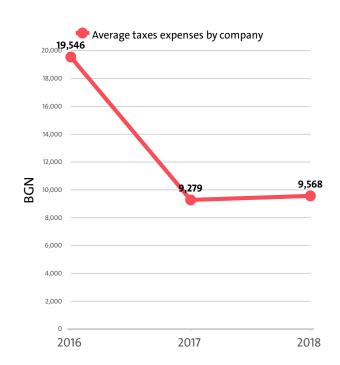
EMPLOYMENT EXPENSES IN SCIENTIFIC RESEARCH AND

RANK	SECTOR	EMPLOYMENT EXPENSES (BGN)	AVERAGE EXPENSES PER EMPLOYEE (BGN)
1	OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	144,457,000	46,079
2	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	3,831,000	30,895
3	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	2,392,000	40,542

THE TOP 10 COMPANIES BY AVERAGE MONTHLY COSTS PER

RANK COMPANY 1 BIO LABS LLC. EOOD 2 RESEARCH CENTER TREND OOD 3 SECURITY-TG OOD 4 ADEX ENERGY EOOD	BGN
2 RESEARCH CENTER TREND OOD 3 SECURITY-TG OOD 4 ADEX ENERGY EOOD	
3 SECURITY-TG OOD 4 ADEX ENERGY EOOD	17,833
4 ADEX ENERGY EOOD	16,917
	13,500
	13,167
5 KREATIVNI TEHNOLOGII OOD	12,250
6 WORLDWIDE CLINICAL TRIALS BUL EOOD	12,119
7 ENERDJI MAKS EOOD	11,667
8 CT CLINICAL SERVICES EOOD	9,750
9 AQUARIUS ND OOD	9,625
10 ELEKTROTECHNOLOGY OOD	8.917

The industry's tax expenses stood at BGN 4,526,000 in 2018. In 2017 it paid taxes of BGN 4,222,000. In 2016 the industry paid BGN 8,913,000 in taxes.

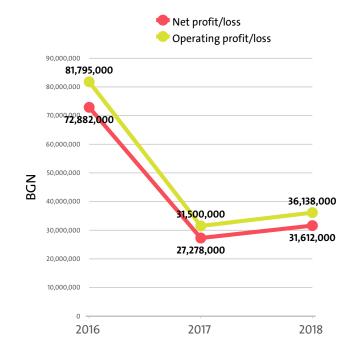


EXPENSES ON TAXES BY SECTORS

RANK	SECTOR	BGN	Y/Y CHANGE
1	OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	4,329,000	8.25%
2	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	105,000	-34.38%
3	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	92,000	46.03%

V. PROFITABILITY

The industry's net profit amounted to BGN 31,612,000 in 2018, compared to a net profit of BGN 27,278,000 in 2017 and a net profit of BGN 72,882,000 in 2016.



TOP 10 COMPANIES BY HIGHEST NET PROFIT IN SCIENTIFIC RESEARCH AND DEVELOPMENT

RANK	COMPANY	BGN
1	LB BULGARICUM EAD	6,537,000
2	PPD BULGARIA EOOD	4,194,000
3	IQVIA RDS BULGARIA EOOD	2,883,000
4	DICS INTERTRADE OOD	2,439,000
5	RF AMPLIFIER BG EOOD	2,335,000
6	RESBIOMED OOD	1,702,000
7	CLINIC DESIGN EOOD	1,351,000
8	COMAC MEDICAL EOOD	1,183,000
9	ELECTRON CONSORTIUM AD	1,013,000
10	PHARMACEUTICAL RESEARCH ASSOCIATES BULGARIA EOOD	768,000

TOP COMPANIES BY HIGHEST NET LOSS IN SCIENTIFIC RESEARCH AND DEVELOPMENT

RANK	COMPANY	BGN
1	TISSUE BANK BIOREGENERATION EOOD	1,070,000
2	TECHNOPHOS EAD	886,000
3	S D DIZAYN OOD	867,000
4	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	557,000
5	POBELCH GLE OOD	375,000

The combined operating earnings of the companies in the Scientific research and development industry grew by 14.72% y/y to BGN 36,138,000 in 2018.

OPERATING PROFIT/LOSS BY SECTORS (BGN)

SECTOR	2018	2017	2016
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	35,315,000	30,722,000	77,352,000
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	771,000	617,000	-471,000
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	52,000	161,000	4,914,000

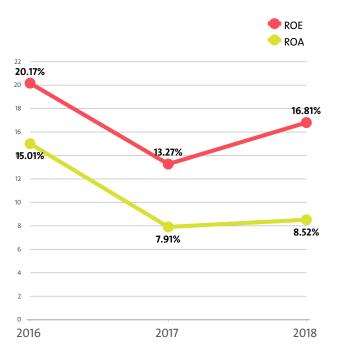
The profit margin for the Scientific research and development industry stood at 11.36% in 2018, while in 2017 it amounted to 10.64% and 27.22% in 2016.

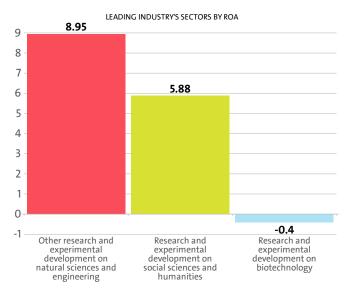
PROFIT MARGIN BY SECTORS

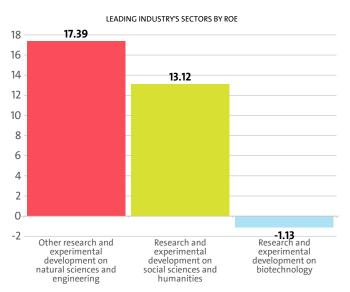
RANK	SECTOR	PROFIT MARGIN
1	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	12.08%
2	OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	11.67%
3	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	0.57%

The Scientific research and development industry's return on equity (ROE) is 16.81% compared to 13.27% in 2017 and 20.17% in 2016.

The Scientific research and development's return on assets (ROA) was 8.52%, while in 2017 it amounted to 7.91% and 15.01% in 2016.







TOP 10 COMPANIES BY HIGHEST AVERAGE NET PROFIT PER EMPLOYEE IN SCIENTIFIC RESEARCH AND DEVELOPMENT

RANK	COMPANY	BGN	COMPANY HEADQUARTERS (CITY)
1	RF AMPLIFIER BG EOOD	259,444	SHUMEN
2	INNOVATO CLINICAL EOOD	180,000	SOFIA
3	RESBIOMED OOD	154,727	SOFIA
4	BEST PARTNERS EOOD	124,500	SOFIA
5	GRAPHENE INNOVATIONS LLC OOD	103,000	SOFIA
6	ECOSTAR - S EOOD	93,000	SOFIA
7	PAVEL PENCHEV KONYLTING ET	91,000	SOFIA
8	RAND MINERALS OOD	84,000	BURGAS
9	DANIEL STANDARD EOOD	83,500	VELIKO TARNOVO
10	LIAN GEOKONSULT OOD	76,000	SOFIA

About 70.00% of the 10 leading companies in terms of net profit per employee are located in SOFIA, while 10.00% are SHUMEN-based and 10.00% are headquartered in BURGAS.

The average net sales revenue per employee in the Scientific research and development industry amounted to BGN 90,087 in 2018, down by 3.46% compared to 2017 and down by 8.93% compared to 2016.

The industry's average operating revenue per employee dropped by 1.60% year-on-year in 2018 to BGN 95,860. It fell by 10.07% compared to 2016.

The Scientific research and development sector generated an average BGN 96,750 in total revenue per employee. In 2017 and 2016 the figure was BGN 98,211 and BGN 110,948, respectively.

The average total revenue per company in the Scientific research and development industry grew to BGN 678,681 in 2018 from BGN 655,960 in 2017. The 2016 value was BGN 685,884.

A company in the Scientific research and development field made on average a net sales revenue of BGN 631,941 in 2018, compared to BGN 623,235 in 2017 and BGN 611,513 in 2016.

The Scientific research and development industry made 0.10% of the overall sales country-wide.

Operating profit per employee for the industry as a whole was BGN 10,892 in 2018. For comparison in 2017 it amounted to BGN 10,365 and BGN 10,365 in 2016.

THE TOP BY OPERATIONAL PROFIT PER EMPLOYEE IN SCIENTIFIC RESEARCH AND DEVELOPMENT

RANK	COMPANY	BGN
1	RF AMPLIFIER BG EOOD	288,333
2	INNOVATO CLINICAL EOOD	200,000
3	RESBIOMED OOD	172,364
4	BEST PARTNERS EOOD	138,500
5	GRAPHENE INNOVATIONS LLC OOD	114,000

TOP 10 COMPANIES WITH HIGHEST CORRELATION OPERATING REVENUE - NUMBER OF EMPLOYEES - EMPLOYMENT EXPENSES*

RANK	COMPANY NAME	CORRELATION (BGN)
1	BREC OOD	1,807,000
2	SCIENCE RESEARCH ENTERPRISE EFFECTIVE ENGINEERING SOLUTIONS EOOD	1,695,000
3	ECOSTAR - S EOOD	494,000
4	AQUARIUS ND OOD	479,500
5	RF AMPLIFIER BG EOOD	469,000
6	TELECHIM OOD	449,000
7	BEST PARTNERS EOOD	418,000
8	AGRIMETRICS EOOD	372,000
9	DEX LAB EOOD	362,667
10	ECOPRAXIS EOOD	339,000

*The correlation is calculated by subtracting the quotient of the operating profit, and the employment expenses to the number of employees.

AVERAGE REVENUES PER EMPLOYEE IN SCIENTIFIC RESEARCH AND DEVELOPMENT IN 2018

SECTOR	AVERAGE NET SALES REVENUE (BGN)	AVERAGE OPERATING REVENUE (BGN)	AVERAGE TOTAL REVENUE (BGN)	NUMBER OF EMPLOYEES
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	90,816	96,533	97,455	3,135
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	102,542	108,153	108,458	59
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	65,734	72,992	73,347	124

AVERAGE REVENUE PER COMPANY IN SCIENTIFIC RESEARCH AND DEVELOPMENT IN 2018

SECTOR	AVERAGE NET SALES REVENUE (BGN)	AVERAGE OPERATING REVENUE (BGN)	AVERAGE TOTAL REVENUE (BGN)	NUMBER OF COMPANIES
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	747,262	794,307	801,895	381
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	189,558	210,488	211,512	43
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	123,469	130,224	130,592	49

The total indebtedness of the companies in the Scientific research and development industry was BGN 154,735,000 versus BGN 117,970,000 a year ago. In 2016 the industry's indebtedness totalled BGN 109,105,000.

INDUSTRY'S INDEBTEDNESS BY SECTORS (BGN)

SECTOR	2018	2017	2016
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	144,750,000	109,657,000	95,594,000
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	5,759,000	4,627,000	5,813,000
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	4,226,000	3,686,000	7,698,000

Debt-to-assets ratio of the companies in the industry is 0.42 in 2018. It was 0.34 in 2017 and 0.22 in 2016.

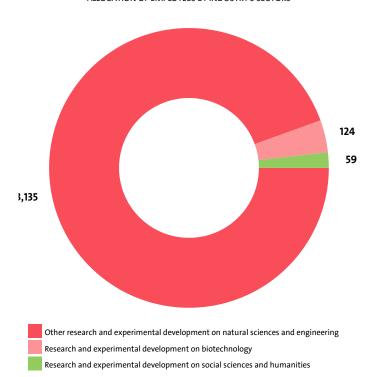
VI. EMPLOYMENT

A total of 3,318 people were employed in the Scientific research and development sector at the end of 2018, compared to 3,039 in 2017 and 2,819 in 2016.

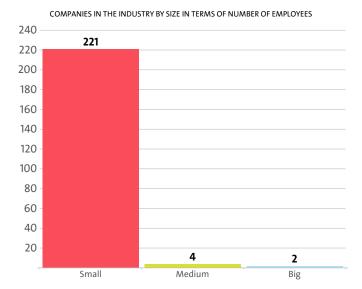
NUMBER OF EMPLOYEES BY INDUSTRY SECTORS

SECTOR	NUMBER	SHARE OF INDUSTRY TOTAL
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	3,135	94.48%
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	124	3.74%
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	59	1.78%

ALLOCATION OF EMPLOYEES BY INDUSTRY'S SECTORS



The analysis on companies' sizes by the number of employees, shows that 221 firms have less than 50 employees*, 4 have between 50 and 250 employees* and 2 companies employ more than 250*.



The employees of the leading 10 companies when it comes to numbers make up 60.85% of the workforce in the industry in 2018.

TOP 10 COMPANIES BY SHARE IN INDUSTRY'S TOTAL NUMBER OF EMPLOYEES

RANK	COMPANY	NUMBER OF EMPLOYEES	SHARE
1	PPD BULGARIA EOOD	879	26.49%
2	IQVIA RDS BULGARIA EOOD	557	16.79%
3	LB BULGARICUM EAD	129	3.89%
4	COMAC MEDICAL EOOD	115	3.47%
5	PHARMACEUTICAL RESEARCH ASSOCIATES BULGARIA EOOD	114	3.44%
6	R & D SERVICES OOD	50	1.51%
7	INSTITUT PO HIDRAVLIKA EOOD	46	1.39%
8	CENTER FOR TESTING AND EUROPEAN CERTIFICATION EOOD	43	1.30%
9	IVO PETROW - ARCHITECTS OOD	43	1.30%
10	MEDICAL CENTER COMAC MEDICAL EOOD	43	1.30%

The Scientific research and development industry is the 65th largest employer in the country with 3,318 employees with the largest employer being Retail trade, except of motor vehicles and motorcycles with 222,070 and Extraction of crude petroleum and natural gas at the bottom with 28 employees.

The Scientific research and development's share in the country's total employment was 0.14% in 2018, 0.17% in 2017 and 0.15% in 2016.

We expect, based on the trend in the last three years, the number of employees of the Scientific research and development industry to change at a compound annual growth rate (CAGR) of 8.49% in 2019.

^{*} Companies without data in the number of employees at end of the year are not taken into consideration.

The industry is represented by the following companies

SMART SOLAR SISTEMS OOD AR END DI BULGARIA EOOD OPITNA STANTSIYA PO POLIVNO ZEMEDELIE -INSTITUT PO HIDRAVLIKA EOOD KLAUD BEYSIK BULGARIA EOOD BIOTECHFARM OOD INO SMART KLINIKAL OOD LIGHT SMART OOD RF AMPLIFIER BG EOOD INOVATSII OOD MEDICAL CARE OOD UPASS OOD IKOKONSULT 94 OOD CENTER FOR TESTING AND EUROPEAN **CERTIFICATION EOOD** ZELENI TEHNOLOGII INDASTRI EOOD **IGNAT IGNATOV ET** ALPHA ENTERPRISE EOOD GRADIENT BULGARIA EOOD LIYD BIOTERAPYUTIKS EOOD REDRAYV OOD TIFABORD OOD BIOMEDIKAL INTERNESHANAL SARVISIZ EOOD ENERDZHI HARVESTING OOD ALIENO OOD PLAM ENERDZHI AD PRO - VAL EOOD SYMBIOTECH OOD TECHNOPHOS EAD PIN CONSULT EOOD INNOPHARMA INTERNATIONAL BG EOOD RIM-SISTEMI OOD **BOREALIS GLOBAL DESIGNS EOOD** EWRON FOOD SALUS INTERNESHANAL EOOD RABOTESHTI IDEI EOOD INNOVA BM OOD SOFTERA OOD SMALL FOOT OOD INDASTRI GRIYNTEH OOD **ELTOMS OOD** LOGISOFT EOOD PRO BIO TEH AD EKIP 2000-KOTOV& CO PARTNERSHIP SD ECOMOTO ENGINEERING LLC OOD CLOUDSIGMA RESEARCH EOOD MEDITRIAL INTERNATIONALS EOOD ROTRIAL KLINIKAL RISARCH BULGARIA OOD FIDELIS RESEARCH AD INOVATSIONEN I IZSLEDOVATELSKI TSENTAR ZA

BIOMEDITSINA BIOTEHNOLOGII I FITOTERAPIA

EXPERTISE & CONSULTATION CENTER - RUSE

SMO BULGARIA OOD

MASTERHERB EOOD

BIOM EOOD

INTERNATIONAL RESEARCH NETWORK EOOD VUSED PARTS FOOD MARKET PRINTSIPAL OOD TELECHIM OOD AQUARIUS ND OOD ARC CONSULTING EOOD EKOLOGICHEN POTENTSIAL DZZD NEW ENERGY GROUP EOOD JLSOUNDS OOD BIO TREE OOD KLIARKOUD EOOD THERMOINVENT EOOD **INOVATIKS EOOD** ET OBTEH-EMIL KOLEV BUILDING RESEARCH INSTITUTE NISI EOOD MINGEOUNIVERS INZHENERING NIS MGU EOOD INSTITUT ZA CHISTI TEHNOLOGII EAD PIPAL EYDZHANSI EOOD VITOSHA RESEARCH EOOD TECHNIK PARTNER BG AD **ENDECTOVET EOOD EUROPEN INSTITUTE FOR INNOVATIONS AND** STRATEGIC ANALYSIS OOD SEDPORTAL EOOD INNOVATO CLINICAL FOOD WATER AND SLUDGE RESEARCH INSTITUTE EOOD SATIXFY BULGARIA FOOD **GENUINE NATURAL SOLUTION OOD** INSTITUT PO TSELULOZA I HARTIA AD ET SOFIYA KOENOVA ET MEDRISARCH - PETYA MANOVA IOMTEX FOOD IOVIA RDS BULGARIA EOOD TM ROBOTICS EOOD STROICONTROL-SP OOD BALKAN RESEARCH OOD AYVARI EOOD DEMASYS OOD R & D SERVICES OOD **IVO PETROW - ARCHITECTS OOD** RESEARCH CENTER TREND OOD VGD ENGINEERING OOD TELELINK LABS EOOD LUMYCOMP DESIGN EOOD OPITNA STANTSIYA PO KAYSIYATA I ZEMEDELIETO-SILISTRA FLEKTROTECHNOLOGY OOD PRO 50 EOOD SOLVENTER OOD

LABORATORIYA - MEDITSINSKI RESHENIYA EOOD

SMART END GRIYN PRODZHEKTS EOOD

MIKROSISTEMI OOD

DE FOTONIKS OOD

AN ENERGY EOOD BIOFARMEKSPERT OOD PL PRODZHEKT OOD STERII OOD MOS ROBOTICS EOOD LUMINOS TRAYLS OOD PAKLAB OOD ECOSTAR - S EOOD TECHNICAL UNIVERSITY-SOFIA-TECHNOLOGY SOLERY OOD NS MEDIKAL OOD EURO-PRO OOD TECHROOM EOOD SV-GROUP 1 OOD LIFE SCIENCE PROJECTS AD UNIGENETIC EOOD CENTRE FOR DISRUPTIVE INNOVATION EOOD **BINOVATION EOOD** APPLICATION SOFTWARE SYSTEMS OOD TUTUNOCHKO EOOD **BIO EKZAKT EOOD** DZZD AKVA - ENV INNOSLAB OOD ENI LEK LYUDMILA LYUBENOVA EOOD 3VM FOOD PAVEL PENCHEV KONYLTING ET SOLFUTURE EOOD SUINGINMASHRUM EOOD MEDIKEY OOD NEOX CLINICAL RESEARCH EOOD AURORA STAR OOD **OPITNA STANTSIYA PO ZEMEDELIE - SREDETS** ET FOI-KOMERS - KRASIMIR KOSTADINOV MARKOV **ERIVIST EOOD** TSENTAR ZA BIOLOGICHNO-AKTIVNI VESHTESTVA EOOD MIKON K EOOD MEDITSINSKI TSENTAR SADOV KARDIO TSENTAR PROVITI EAD ZGURA - M EOOD ET ADZHAROV-TODOR ADZHAROV IO - DZHES KONSULT EOOD METAL FOAMS EOOD NANOBIOREM OOD LABORA EKSPERT OOD RESBIOMED TEHNOLODZHIS OOD KOMPANIA ZA ENERGIYNO OBSLEDVANE ZENIT AKVA AVTOMATIKA OOD ENVISKO FOOD OPITNA STANTSIYA PO ZEMEDELIE - KARDZHALI IMUNOLAB EOOD

MONOV CONSULT EOOD

AKUMULATOREN CENTAR EUROPE EOOD

PPD BULGARIA EOOD

HERBITOUR EOOD

ARMACO ENGINEERING AD RASHO RASHKOV-54 ET MEGA PRO DESIGN EOOD INDUSTRIAL ENGINEERING INNOVATIONS & 14TH ELEMENT EOOD WORLDWIDE CLINICAL TRIALS BUL EOOD NTTS LAB EOOD EKAYA EOOD ET GERA-STEFAN GERASIMOV **ENERKON EOOD** BIOMYC OOD PRIRODEN DIZAYN OOD SAVMESTEN GENOMEN TSENTAR OOD SCIENCE RESEARCH ENTERPRISE EFFECTIVE **ENGINEERING SOLUTIONS EOOD** TECHNICAL INNOVATIONS EOOD DZHENERAL TREYD KORPOREYSHAN EOOD HYUMAN KONTAKT EOOD BIOPRINT EOOD INNOVTEH EOOD GLOBAL PHARMA SOLUTIONS EOOD SCHILLER ENGINEERING-SOFIA EOOD OPITNA STANTSIYA PO SOYATA-PAVLIKENI E ES KONSULTING EOOD E P S EKO POLIMERNI SISTEMI EOOD BIBLIOTEKA ZEMEDELSKO OBRAZOVANIE EOOD INFRAPRO PLC AD NRG TECH EOOD SIVIKO OOD SEOPIPE OOD EXON FOOD VIZHAN PROTEKT EOOD **ECOPRAXIS EOOD** HYDROKOM OOD SPACELAB OOD BIAVIN EOOD IAOSENSE EOOD DZHILAB EOOD CT CLINICAL SERVICES EOOD **EUROCONSULT MIG OOD** ET LAROSSA REYKI - LILYANA ORESHAROVA ANALYTICAL SYSTEMS AND ELECTRONIC TECHNOLOGIES OOD ET METROKAD - LACHEZAR BRASTINKOV FOLINOX GLOBAL SOLUTIONS FOOD STUDIO PREVYU EOOD ADELANDA FOOD NINETY NINE OOD D77D KONSORTSILIM OPTIKOMERS ET SHINGO - ANGEL TERZIYSKI DZHI AR TI INTERNESHANAL OOD **ENVIROTECH OOD BCT-GLOBAL EOOD** TAU - ORIONIS FOOD NEW ENERGY CORPORATION OOD

SOFIEN RIAHI AMBULATORIA ZA INDIVIDUALNA

PRAKTIKA ZA PARVICHNA DENTALNA POMOSHT

FOOD

SDRUZHENIE BALGARSKO DRUZHESTVO PO	ARHEO - LOGIKA EOOD	GIS INNOVATIVE EOOD	EKO LINK DZZD
GENETIKA I GENOMIKA NA CHOVEKA	ESEO CONSULT EOOD	HROMANA EOOD	INSTITUTE FOR MEDICAL RESEARCH OOD
IVO GEORGIEV ILIEV	DIAVACH IVZ EOOD	DRON PARK OOD	PING UIN EOOD
MILPAIN AD	CONVEX EOOD	SYNEXUS BULGARIA EOOD	OPITNA STANTSIYA PO LOZARSTVO I VINARSTV
D I G EKOSISTEMS KONSULT OOD	ET TIYM INTELEKT - NEVYANA BUMBAROVA	CLINIC DESIGN EOOD	VARNA
CHASTEN INSTITUT ZA VODNI TEHNOLOGII	BUSINESS SOLUTIONS BOX OOD	ECO-CONSULT-ENGINEERING OOD	ET DIMITRIN DIMITROV
EOOD CAMADI AD DIVI CADIA FOOD	ANENDAN MED BULGARIA OOD	PARKING & ANTI-PARKING OOD	MIKS INZHENERING EOOD
SMARTLAB BULGARIA EOOD	INOBIOTEH EOOD	NANOTEHPLAZMA OOD	RUMYANA GEORGIEVA EREMIEVA
INSTARK EOOD	ROBOTIZIRANI SISTEMI OOD	THETA CONSULT OOD	TOP NOVELTY EOOD
FRESH SOFT KONTROL OOD	HANCY OOD	SOFTUERNA KASHTA FIPS KEMALOV EOOD	SCTLTD EOOD
ELIFARM EOOD	ALCAZAR COMMERCE EOOD	OSMOTERM OOD	NIAMEKS KONSULTING SERVISIS EOOD
DRONE BULAGARIA EOOD	ENP MOTORS EOOD	MEGAKORN - T EOOD	SARON EOOD
FIBRONIX OOD	ROMB OOD	ONTOIDEA EOOD	INNOVATICS-2016 OOD
INOVEYTIV DESIZHANS OOD	HIGH - TECHNOLOGY PARK - TU VARNA EOOD	ACCELSIORS BULGARIA EOOD	ANTMAN 2014 EOOD
DICS INTERTRADE OOD	STOILOV RM EOOD	SODREVIR EOOD	AUTO PARK BULGARIA JSK EAD
DI NI MAR OOD	SENTRO EOOD	CLUSTER HOISTING DEVICES OOD	PHARMACEUTICAL RESEARCH ASSOCIATES
NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	ECOSMART CONSULTING EOOD	ESOT EOOD	BULGARIA EOOD
DANIEL STANDARD EOOD	NAVEL OOD	INFO GEOINZHENERING EOOD	CREDIT SOLUTION EOOD
KLINTRAYLS EN VI BI EOOD	LB LACT BAS EOOD	INOTOP BIO OOD	VITAMETRICS OOD
INSTITUTE FOR MANAGEMENT AND		PROTEY M EOOD	KLASTER MEHATRONIKA OOD
OPERATIONAL RESEARCH - GANTT EOOD	BALKANSKA MEZHDUNARODNA AKADEMIYA EOOD		NTL CHEMICAL CONSULTING BULGARIA EOOD
GRAPHENE INNOVATIONS LLC OOD	ASTORIA EOOD	DEVISION OOD	IBFOTONIKA EOOD
BIOHART OOD	MEDCONSULT 2017 EOOD	T. I K. RISARCH OOD	EKS KOLEKT EOOD
ATMOSFERIKA EOOD	NEUROECONOMICS LABS EOOD	SAGEA OOD	SMIK INGRIDIANTS AD
INNOVATIVE ENERGY AND INFORMATION	MICROTECH OOD	LINGUODIDACTIKA EOOD	BIORON EOOD
TECHNOLOGIES OOD	FOOD TRANSFER CENTER OOD	BV INOVEYSHAN EOOD	BEST PARTNERS EOOD
ENDUROSAT AD	DESIGNER NANO-ALOYS OOD	GLOBAL INNOVATIONS OOD	AGRIMETRICS EOOD
EKSPERIMENTALIKA EOOD	OVIRON EOOD	NOVAINVENT EOOD	6A EOOD
L I TEHNOLODZHI OOD	BATERFLAY-66 EOOD	PROJECT 1 EOOD	CAPPRESS - YORDAN GEORGIEV ET
6M EOOD	QA C OOD	MEDICAL CENTER COMAC MEDICAL EOOD	R ACTION OOD
MD MANAGEMENT EOOD	KVANTATSEYA EOOD	ESENSELAB OOD	TSRM TREYD BULGARIA EOOD
HT RESEARCH BG EOOD	GEOSERVIZ-4 OOD	LIAN GEOKONSULT OOD	OPITNA STANTSIYA PO KARTOFITE - SAMOKOV
IZSLEDVANE I RAZRABOTVANE NA	OPITNA STANTSIYA PO ZEMEDELIE-VIDIN	EUROPEAN PROGRAM ADVISORY EOOD	TPP
NANOMATERIALI I NANOTEHNOLOGII - NANO TEH LAB OOD	ELECTRON CONSORTIUM AD	FINBOLT EOOD	TIMAXMED OOD
NIS - ES PI VI EOOD	EKOLOGIYAKM OOD	ARC METROLOGIA OOD	BI - EN 1 EOOD
KMK PHARMA EOOD	ALTERNATIVE FOR INCLUSIVE PROGRESS EOOD	RD ALOM OOD	IMPERAND OOD
GREEN INNOVATIONEOOD OOD	·	TAMAREL EOOD	BOLKAN MINERALS DIVELAPMANT OOD
ECOTECH GLOBAL EOOD	BETON EOOD	OTEH OOD	GREEN SUN SYSTEMS L T D OOD
LABORATORIES PROTECTA OOD	KREATIVNI TEHNOLOGII OOD	NORMAR KONSULT OOD	MEDTEST OOD
IV SATIN EOOD	DEX LAB EOOD	TEHNOLOGICHEN TSENTAR ZA NOVI	CHUHAL EOOD
ADEX ENERGY EOOD	ET KSIMETRO - TATYANA NIKOLOVA	RAZRABOTKI V BEZIZKOPNITE TEHNOLOGII DZZD	R.EREMIEV EOOD
	DEODAN EOOD	TELESOFT KONSULTING OOD	TEXTEXT - MM OOD
SMART FARM OOD	MEDICAL CENTRE SYNEXUS SOFIA EOOD	ARSEN DEVELOPMENT EOOD	GTM INZHENERING OOD
BIODIAGNOSTIC EOOD	DELYANA REZIDENS OOD	INTERPROJECTS EOOD	ELK ENGINEERING EOOD
CHECK POINT R&D OOD	MAKS INOVEYSHANS MI 5 OOD	MEDITSINSKI TSENTAR INOVATIVEN TSENTAR PO NEVROLOGIYA OOD	RESBIOMED OOD
ENERDJI MAKS EOOD	FOMO EOOD	BIOTEH LABORATORII OOD	INOKOTEK DIVELAPMANT OOD
TRIFONOV INOVATIX EOOD	OPITNA STANTSIYA PO BUBARSTVO I ZEMEDELIE - VRATSA	RAND MINERALS OOD	VI SI INZHENERING EOOD
NAUCHNOIZSLEDOVATELSKO BYURO EOOD	PLAZMA CONTROL OOD	INTERNATIONAL INNOVATIVE TECHNOLOGIES	MANTOV EOOD
WELLNESS AND HEALTH INNOVATIVE DECISIONS CLUSTER OOD	GEOTEHINZHENERING OOD	EOOD	ENERGY SAVING EOOD
MEZHDUNARODNA TURISTICHESKA AKADEMIYA	TP DARIMPEKS LIMITED	CODEATTEST OOD	POBELCH GLE OOD
ITAKA - ALBENA EOOD		EL TI EY DZHI OOD	SMART FAB LAB OOD
PROGRAMNO-KOORDINATSIONEN TSENTAR ZA	BIO LABS LLC. EOOD	FLAG-N EOOD	UNION INDUSTRY AD
NAUCHNI IZSLEDVANIYA-EKOPAN EOOD	PRO NANO TEH AD	O I K OGNYANOV I SIE SD	BREC OOD
NUKLEUS EOOD	SOLAR COMPLEX OOD	DIALOOD	SOLARLAB OOD
QUEO EOOD	MEDICAL CENTER EXCELSIOR OOD	MEDICAL CENTER HEALTH CARE OOD	DZZD AGRAKVA
IMEG EOOD	BULGARIAN NEURO-COGNITIVE LAB OOD	DAR - TSENTAR ZA PRILOZHNI IZSLEDVANIYA	DZZD OBEDINENIE AKVA-BALKANI
MERAKTA OOD	OGRA EOOD	EOOD	SI.DZHI.ES. KONSULT EOOD
EFFECT CONSULT OOD	ARKITEKCHARAL SPAYS EOOD	NAUCHNOIZSLEDOVATELSKI INSTITUT PO	CYBELE 7 EOOD
EKO-INOVATSII OOD	PLDA EOOD	STROITELNI MATERIALI /NIISM/ EOOD	S D DIZAYN OOD
COMAC MEDICAL EOOD	I YU PI EY FINANS END EDYUKEYSHAN EOOD	MOZAYKA EOOD	INNOVARIVER OOD
BULGARSKI TSENTROVE ZA KLINICHNI	ET SVETLA GEORGIEVA - MINERA	ATIKA KREDIT EOOD	MICRONA OOD
PROUCHVANIA OOD	ZELENO UPRAVLENIE OOD	AERIAL SYSTEMS-ON OOD	OL ASPEKTS EOOD
ITC - INNOVATIVE - TECHNOLOGICAL CENTRE	EYCH ES ES EOOD	LB BULGARICUM EAD	_
OOD			
·	TISSUE BANK BIOREGENERATION EOOD	ZEINCRO BULGARIA EOOD	REYA - K. IVANOV EOOD
EKO ZORA OOD	TISSUE BANK BIOREGENERATION EOOD PRINT CAST OOD	ZEINCRO BULGARIA EOOD ST INNOVATION EOOD	FORCEDA SYSTEMS OOD
·			

RLG 2016 OOD

ADJAROV TECHNOLOGY EOOD

BMM AD

LB LAKT OOD

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We'd be glad to discuss our services or your project in detail and help you come up with a solution.

Email us at consulting@seenews.com
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