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Industry Report Scientific research and development 2016 BULGARIA

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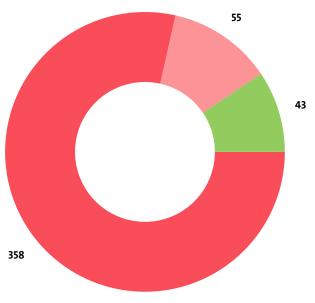
I. KEY INDICATORS

- The Scientific research and development industry in Bulgaria was represented by 456 companies at the end of 2016, compared to 406 in the previous year and 370 in 2014.
- The industry's net profit amounted to BGN 72,882,000 in 2016.
- The industry's total revenue was BGN 312,763,000 in 2016, down by 42.29% compared to the previous year.
- The combined costs of the companies in the Scientific research and development industry reached BGN 230,968,000 in 2016, down by 44.49% year-on-year.
- The industry's total revenue makes up 0.34% to the country's Gross domestic product (GDP) in 2016, compared to 0.61% for 2015 and 0.52% in 2014.
- A total of 2,819 people were employed in the Scientific research and development industry in 2016, compared to 2,977 in 2015 and 2,702 in 2014.
- Most of the companies in the industry are based in Sofia, followed by Plovdiv and Varna.

II. INTRODUCTION

In 2016 the companies in the Scientific research and development industry numbered 456, distributed in 3 sectors.







Research and experimental development on social sciences and humanities

Research and experimental development on biotechnology

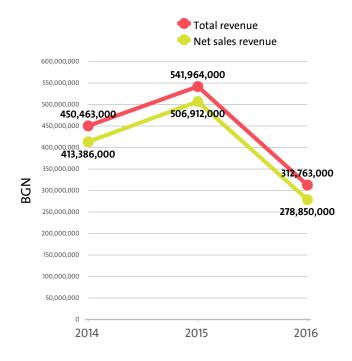
In 2015 there were a total of 406 companies operating in the industry. In 2014 their number totalled 370.

NUMBER OF COMPANIES IN SCIENTIFIC RESEARCH AND DEVELOPMENT INDUSTRY BY SECTORS

SECTOR	2016	2015	2014
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	358	322	288
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	55	44	45
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	43	40	37

III. REVENUES

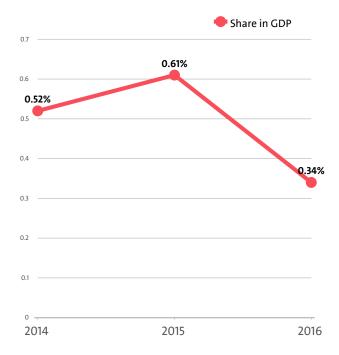
The total revenue in the industry was BGN 312,763,000 in 2016, BGN 541,964,000 in 2015 and 450,463,000 in 2014.



The companies in the Scientific research and development market of Bulgaria earned combined net sales revenues of BGN 278,850,000 in 2016.

In annual terms, sales marked a fall of 44.99% compared to 2015. In comparison to 2014 they dropped by 32.54%. In 2015 sales decreased by 22.62% year-on-year.

The Scientific research and development industry total revenue make up 0.34% to the country's GDP in 2016, compared to 0.61% for 2015 and 0.52% in 2014.



In 2016 the Scientific research and development industry contributed to GDP BGN 291,022,000 in Gross value added (GVA) accounting for 0.19% of the total for the country's economy.

In the previous year, the industry's GVA amounted BGN 515,785,000, accounting for 0.33% of the total for the country in 2015. In 2014 the GVA of the Scientific research and development was BGN 427,351,000, or 0.30% of the GVA for the country's economy.

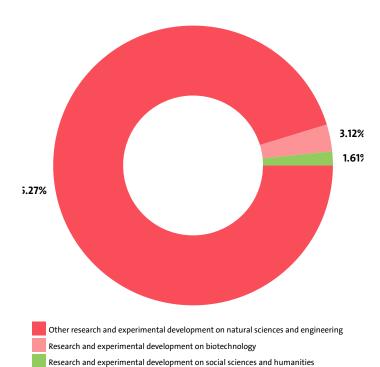
GVA BY SECTORS

RANK	SECTOR	BGN	SHARE OF THE COUNTRY'S GVA (%)
1	OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	276,712,000	0.18
2	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	9,259,000	0.01
3	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	5,051,000	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 -16.67% in 2017.

Other research and experimental development on natural sciences and engineering contributed net sales revenue of BGN 265,655,000 or 95.27% of the total net sales in the industry, sector Research and experimental development on biotechnology - BGN 8,692,000 (3.12%), and sector Research and experimental development on social sciences and humanities - BGN 4,503,000 (1.61%).

INDUSTRY'S NET SALES REVENUE STRUCTURE BY SECTORS



The highest growth, of 59.14%, was recorded by Research and experimental development on biotechnology, while Other research and experimental development on natural sciences and engineering registered the sharpest decline, of 46.48%.

TOP COMPANIES' REVENUE BY SECTORS

SEGMENT	COMPANY	TOTAL REVENUE (BGN)	NET SALES REVENUE (BGN)
OTHER RE AND ENGI	SEARCH AND EXPERIMENTAL DEVELOPMENT (NEERING	ON NATURAL SO	CIENCES
	PPD BULGARIA EOOD	92,715,000	83,225,000
	IQVIA RDS BULGARIA EOOD	40,286,000	39,628,000
	LB BULGARICUM EAD	20,348,000	18,222,000
RESEARCH HUMANIT	I AND EXPERIMENTAL DEVELOPMENT ON SOC IES	IAL SCIENCES A	ND
	WORLDWIDE CLINICAL TRIALS BUL EOOD	1,062,000	1,059,000
	NINETY NINE OOD	508,000	508,000
	VITOSHA RESEARCH EOOD	458,000	458,000
RESEARCH	I AND EXPERIMENTAL DEVELOPMENT ON BIOT	rechnology	
	BIOMEDIKAL INTERNESHANAL SARVISIZ EOOD	4,599,000	4,297,000
	ROMB OOD	1,887,000	1,665,000
	HT RESEARCH BG EOOD	482,000	481,000

The top 10 companies in terms of total revenue in Scientific research and development accounted for 67.75% of the industry's total in 2016, 81.38% in 2015 and 81.28% in 2014.

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

RANK	COMPANY	TOTAL REVENUE (BGN)	NET SALE REVENUE (BGN)
1	PPD BULGARIA EOOD	92,715,000	83,225,000
2	IQVIA RDS BULGARIA EOOD	40,286,000	39,628,000
3	LB BULGARICUM EAD	20,348,000	18,222,000
4	COMAC MEDICAL EOOD	14,808,000	13,108,000
5	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	9,258,000	148,000

6 PHARMACEUTICAL RESEARCH ASSOCIATES 8,871,000 8,746,000 **BULGARIA EOOD** 7 R & D SERVICES OOD 8,048,000 8,038,000 8 RF AMPLIFIER BG EOOD 6,821,000 6,718,000 9 S D DIZAYN OOD 5,430,000 5,123,000 10 RESBIOMED OOD 5,309,000 4,616,000

The total revenues of the top 10 companies in the Scientific research and development were 0.23% of GDP in 2016, compared to 0.49% for 2015 and 0.43% in 2014.

The top 10 by assets in the Scientific research and development market made up BGN 168,371,000, or 60.38% of the total net sales revenue.

TOP 10 BY TOTAL ASSETS IN THE INDUSTRY

RANK	COMPANY	BGN
1	PPD BULGARIA EOOD	195,234,000
2	LB BULGARICUM EAD	28,876,000
3	TECHNOPHOS EAD	21,839,000
4	COMAC MEDICAL EOOD	16,930,000
5	RESBIOMED OOD	16,337,000
6	IQVIA RDS BULGARIA EOOD	12,413,000
7	MURA BULGARIA OOD	11,749,000
8	BMM AD	10,257,000
9	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO	9,627,000
	SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	
10	S D DIZAYN OOD	9,210,000

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

DEVELOT	COMPANY	Y/Y GROWTH
1	ALENA SOLAR OOD	40900.00
		%
2	PRINT CAST OOD	3800.00%
3	AN ENERGY EOOD	1807.94%
4	SIVIKO OOD	1428.57%
5	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI	1335.04%
	NAPITKI I ETERICHNI MASLA EOOD	
6	DITRONIK EOOD	1316.67%
7	MEDISTAT EOOD	1300.00%
8	CREDIT SOLUTION EOOD	1111.11%
9	COMERG EOOD	1106.67%
10	ARKITEKCHARAL SPAYS EOOD	988.24%

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

COMPANY	BGN
PPD BULGARIA EOOD	92,715,000
IQVIA RDS BULGARIA EOOD	40,286,000
LB BULGARICUM EAD	20,348,000
COMAC MEDICAL EOOD	14,808,000
NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	9,258,000
PHARMACEUTICAL RESEARCH ASSOCIATES BULGARIA EOOD	8,871,000
R & D SERVICES OOD	8,048,000
RF AMPLIFIER BG EOOD	6,821,000
S D DIZAYN OOD	5,430,000
RESBIOMED OOD	5,309,000

Other research and experimental development on natural sciences and engineering earned total revenue of BGN 211,894,000 and accounted for 67.75% of the industry's total revenue.

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

COMPANY	BGN
WORLDWIDE CLINICAL TRIALS BUL EOOD	1,062,000
NINETY NINE OOD	508,000
VITOSHA RESEARCH EOOD	458,000
VEDAMO EAD	421,000
ARC CONSULTING EOOD	382,000
OGRA EOOD	366,000
PROJECT 1 EOOD	300,000
SCHILLER ENGINEERING-SOFIA EOOD	260,000
PUBLIC PROCUREMENT NATIONAL CONSULTANT OOD	250,000
SOLERY OOD	227,000

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 4,234,000 and accounted for 1.35% of the industry's total revenue.

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

AND EXILERIMENTAL DEVELOT MENT ON BIOTECHNOLOGY WERE:	
COMPANY	BGN
BIOMEDIKAL INTERNESHANAL SARVISIZ EOOD	4,599,000
ROMB OOD	1,887,000
HT RESEARCH BG EOOD	482,000
MEGAKORN - T EOOD	375,000
FIDELIS RESEARCH AD	374,000
PROTEY M EOOD	347,000
BIO TREE OOD	335,000
EKOTEHNOLOGII 21 DZZD	276,000
LB LACT BAS EOOD	124,000
GRADIENT BULGARIA EOOD	117,000

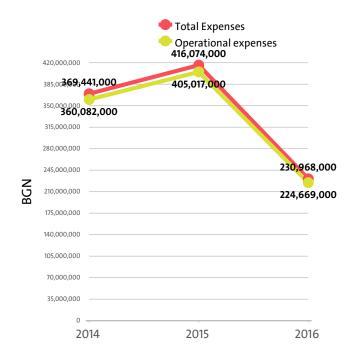
The 10 largest companies in terms of total revenue in sector Research and experimental development on biotechnology earned total revenue of BGN 8,916,000 and accounted for 2.85% of the industry's total revenue.

PRODUCTION SALES FIGURES FOR SCIENTIFIC RESEARCH AND DEVELOPMENT IN 2016

DEVELOT MENT IN 2010			
SECTOR	SALES IN BGN	INCL. SALES ON THE DOMESTIC MARKET IN BGN	INCL. EXPORTS IN BGN
OTHER RESEARCH AND EXPERIMENTAL	268,000	268,000	0
DEVELOPMENT ON NATURAL SCIENCES AND			
ENGINEERING			

IV. EXPENSES

The combined costs of the companies in the Scientific research and development industry reached BGN 230,968,000 in 2016.



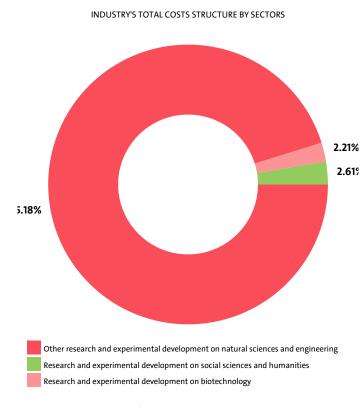
In annual terms, total expenses fell by 44.49% compared to 2015 and went down by 37.48% in comparison to 2014.

The total operating expenses of the companies in the Scientific research and development industry were BGN 224,669,000 in 2016.

Operating costs decreased by 44.53% compared with the previous year and decreased by 37.61% when compared to 2014.

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 -20.93% in 2017.

Other research and experimental development on natural sciences and engineering reported the highest total costs, of BGN 219,840,000, followed by Research and experimental development on social sciences and humanities with BGN 6,021,000 and Research and experimental development on biotechnology with total costs of BGN 5,107,000.

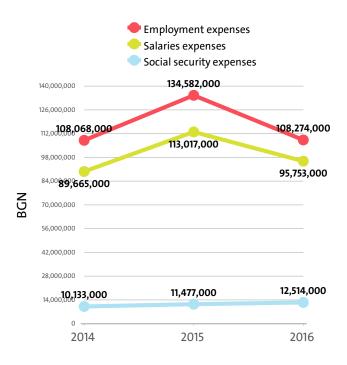


There was no industry's sector to report a increase in total costs. In terms of annual drop, the top position was occupied by Other research and experimental development on natural sciences and engineering with 45.57%.

There was no industry's sector to report a increase in operating costs. In terms of annual drop, the top position was occupied by Other research and experimental development on natural sciences and engineering with 45.58%.

The biggest spenders in the industry, with costs of over 10% of industry's costs, numbered 6, including IQVIA RDS BULGARIA EOOD, R & D SERVICES OOD, PPD BULGARIA EOOD, COMAC MEDICAL EOOD, LB BULGARICUM EAD. The medium spenders, or those in the 5% and 10% range count 4 and include RF AMPLIFIER BG EOOD, TECHNOPHOS EAD, IVO PETROW - ARCHITECTS OOD, NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD. Below 5% threshhold are 446 companies, including SMART SOLAR SISTEMS OOD, AR END DI BULGARIA EOOD, MAKRO GE OOD, INNOPHARMA INTERNATIONAL BG EOOD, OPITNA STANTSIYA PO POLIVNO ZEMEDELIE-PAZARDZHIK DP.

Employment expenses in the Scientific research and development industry dropped by 19.55% on the year to BGN 108,274,000 in 2016.



The highest growth in labour costs, of 65.91%, was registered by Research and experimental development on biotechnology, while Other research and experimental development on natural sciences and engineering marked the sharpest fall, of 20.94%.

The monthly costs per employee in the Scientific research and development industry averaged BGN 3,201 in 2016, BGN 3,767 in 2015 and BGN 3,333 in 2014.

The monthly social security costs per employee in the industry averaged BGN 370 in 2016, versus BGN 321 in 2015 and BGN 313 in 2014.

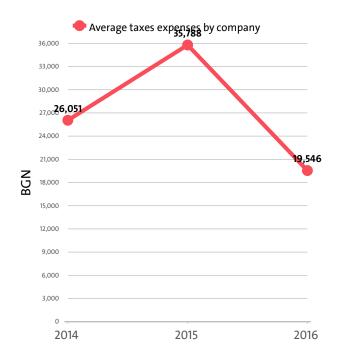
EMPLOYMENT EXPENSES IN SCIENTIFIC RESEARCH AND DEVELOPMENT BY SECTORS IN 2016

RANK	SECTOR	EMPLOYMENT EXPENSES (BGN)	AVERAGE EXPENSES PER EMPLOYEE (BGN)
1	OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	103,885,000	39,187
2	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	2,501,000	30,133
3	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	1,888,000	22,212

THE TOP 10 COMPANIES BY AVERAGE MONTHLY COSTS PER EMPLOYEE IN THE INDUSTRY

RANK	COMPANY	BGN
1	ALENA SOLAR OOD	25,167
2	LUMYCOMP DESIGN EOOD	12,125
3	ENERDJI MAKS EOOD	11,500
4	ZEINCRO BULGARIA EOOD	10,726
5	ELIFARM EOOD	9,833
6	KP DENT - AMBULATORIA ZA INDIVIDUALNA PRAKTIKA ZA PARVICHNA DENTALNA POMOSHT EOOD	9,417
7	WORLDWIDE CLINICAL TRIALS BUL EOOD	9,344
8	BCT-GLOBAL EOOD	9,333
9	SOFIEN RIAHI AMBULATORIA ZA INDIVIDUALNA PRAKTIKA ZA PARVICHNA DENTALNA POMOSHT EOOD	9,333
10	BALKAN RESEARCH OOD	9,104

The industry's tax expenses stood at BGN 8,913,000 in 2016. In 2015 it paid taxes of BGN 14,530,000. In 2014 the industry paid BGN 9,639,000 in taxes.

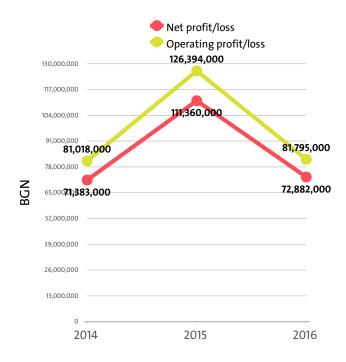


EXPENSES ON TAXES BY SECTORS

RAN	SECTOR	BGN	Y/Y CHANGE
	I OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	8,414,000	-41.00%
	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	500,000	133.64%
	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	-1,000	-101.79%

V. PROFITABILITY

The industry's net profit amounted to BGN 72,882,000 in 2016, compared to a net profit of BGN 111,360,000 in 2015 and a net profit of BGN 71,383,000 in 2014.



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

RANK	COMPANY	BGN
1	PPD BULGARIA EOOD	32,052,000
2	LB BULGARICUM EAD	5,585,000
3	S D DIZAYN OOD	3,795,000
4	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	3,730,000
5	BIOMEDIKAL INTERNESHANAL SARVISIZ EOOD	3,418,000
6	RF AMPLIFIER BG EOOD	3,241,000
7	IQVIA RDS BULGARIA EOOD	2,985,000
8	LUNATONE - BG OOD	2,561,000
9	RESBIOMED OOD	2,475,000
10	COMAC MEDICAL EOOD	1,716,000

TOP COMPANIES BY HIGHEST NET LOSS IN SCIENTIFIC RESEARCH AND DEVELOPMENT

RANK	COMPANY	BGN
1	TECHNOPHOS EAD	898,000
2	VEDAMO EAD	751,000
3	NOVARTO INVEST OOD	387,000
4	CONVEX EOOD	323,000
5	POBELCH GLE OOD	252,000

The combined operating earnings of the companies in the Scientific research and development industry fell by 35.29% y/y to BGN 81,795,000 in 2016.

OPERATING PROFIT/LOSS BY SECTORS (BGN)

OPERATING PROFIT/LOSS BY SECTORS (BGN)				
SECTOR	2016	2015	2014	
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	77,352,000	124,613,000	79,616,000	
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	4,914,000	1,749,000	36,000	
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	-471,000	32,000	1,366,000	

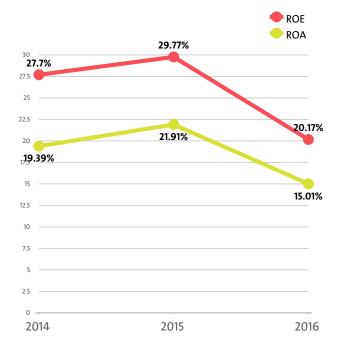
The profit margin for the Scientific research and development industry stood at 27.22% in 2016, while in 2015 it amounted to 24.33% and 18.79% in 2014.

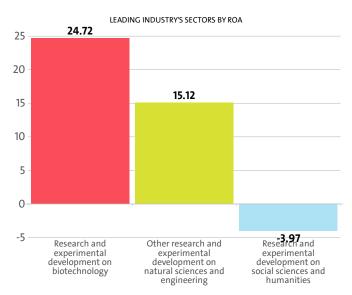
PROFIT MARGIN BY SECTORS

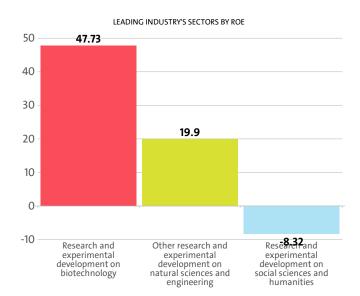
RAN	K SECTOR	PROFIT MARGIN
	1 RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	50.67%
	2 OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	27.12%
	RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	-8.54%

The Scientific research and development industry's return on equity (ROE) is 20.17% compared to 29.77% in 2015 and 27.70% in 2014.

The Scientific research and development's return on assets (ROA) was 15.01%, while in 2015 it amounted to 21.91% and 19.39% in 2014.







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

RANK	COMPANY	BGN	COMPANY HEADQUARTERS (CITY)
1	TECHNIK PARTNER BG AD	426,000	SOFIA
2	RF AMPLIFIER BG EOOD	405,125	SHUMEN
3	S D DIZAYN OOD	345,000	SOFIA
4	ENERDJI MAKS EOOD	333,500	STARA ZAGORA
5	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	207,222	SOFIA
6	RESBIOMED OOD	176,786	SOFIA
7	EKO INOVATSII OOD	130,000	SOFIA
8	STOILOV RM EOOD	112,500	SOFIA
9	AR END DI BULGARIA EOOD	92,000	KOKALYANE
10	SYNEXUS BULGARIA EOOD	89,250	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 STARA ZAGORA.

The average net sales revenue per employee in the Scientific research and development industry amounted to BGN 98,918 in 2016, down by 41.91% compared to 2015 and down by 35.34% compared to 2014.

The industry's average operating revenue per employee fell by 38.91% year-on-year in 2016 to BGN 106,590. It decreased by 33.20% compared to 2014.

The Scientific research and development sector generated an average BGN 110,948 in total revenue per employee. In 2015 and 2014 the figure was BGN 182,050 and BGN 166,715, respectively.

The average total revenue per company in the Scientific research and development industry dropped to BGN 685,884 in 2016 from BGN 1,334,887 in 2015. The 2014 value was BGN 1,217,468.

A company in the Scientific research and development field made on average a net sales revenue of BGN 611,513 in 2016, compared to BGN 1,248,552 in 2015 and BGN 1,117,259 in 2014.

The Scientific research and development industry made 0.11% of the overall sales country-wide, decreasing its market share by 0.09 pp.

Operating profit per employee for the industry as a whole was BGN 29,016 in 2016. For comparison in 2015 it amounted to BGN 42.457 and BGN 42.457 in 2014.

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

RANK	COMPANY	BGN
1	TECHNIK PARTNER BG AD	473,000
2	RF AMPLIFIER BG EOOD	451,750
3	S D DIZAYN OOD	384,364
4	ENERDJI MAKS EOOD	370,500
5	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	224,833
	TOTAL TRAIL ETERICATION OF THE PROPERTY OF THE	

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

RANK	COMPANY NAME	CORRELATION (BGN)
1	AN ENERGY EOOD	1,179,000
2	RF AMPLIFIER BG EOOD	814,750
3	SOLFUTURE EOOD	677,000
4	SYNEXUS BULGARIA EOOD	617,500
5	TECHNIK PARTNER BG AD	592,000
6	ENERDJI MAKS EOOD	587,000
7	NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD	495,611
8	S D DIZAYN OOD	422,364
9	IBFOTONIKA EOOD	301,000
10	RESBIOMED OOD	273,214

*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 2016

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	100,209	107,605	112,106	2,651
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	54,253	66,458	66,867	83
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	102,259	114,106	117,894	85

AVERAGE REVENUE PER COMPANY IN SCIENTIFIC RESEARCH AND DEVELOPMENT IN 2016

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	742,053	796,821	830,145	358
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	158,036	176,345	182,200	55
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	104,721	128,279	129,070	43

The total indebtedness of the companies in the Scientific research and development industry was BGN 109,105,000 versus BGN 116,258,000 a year ago. In 2014 the industry's indebtedness totalled BGN 98,431,000.

INDUSTRY'S INDEBTEDNESS BY SECTORS (BGN)

SECTOR	2016	2015	2014
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	95,594,000	96,757,000	84,003,000
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	7,698,000	13,124,000	8,499,000
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	5,813,000	6,377,000	5,929,000

Debt-to-assets ratio of the companies in the industry is 0.22 in 2016. It was 0.23 in 2015 and 0.27 in 2014.

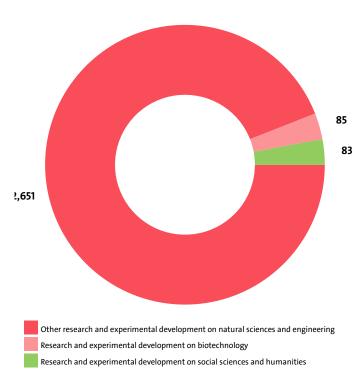
VI. EMPLOYMENT

A total of 2,819 people were employed in the Scientific research and development industry at the end of 2016, compared to 2,977 in 2015 and 2,702 in 2014.

NUMBER OF EMPLOYEES BY INDUSTRY SECTORS

SECTOR	NUMBER	SHARE OF INDUSTRY TOTAL
OTHER RESEARCH AND EXPERIMENTAL DEVELOPMENT ON NATURAL SCIENCES AND ENGINEERING	2,651	94.04%
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON BIOTECHNOLOGY	85	3.02%
RESEARCH AND EXPERIMENTAL DEVELOPMENT ON SOCIAL SCIENCES AND HUMANITIES	83	2.94%

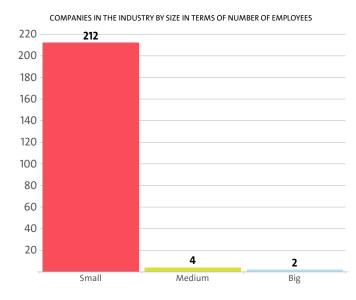
ALLOCATION OF EMPLOYEES BY INDUSTRY'S SECTORS



The analysis on companies' sizes by the number of employees, shows that 212 firms have less than 50

employees*, 4 have between 50 and 250 employees* and 2 companies employ more than 250*.

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



The employees of the leading 10 companies when it comes to numbers make up 60.41% of the workforce in the industry in 2016.

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

RANK	COMPANY	NUMBER OF EMPLOYEES	SHARE
1	PPD BULGARIA EOOD	717	25.43%
2	IQVIA RDS BULGARIA EOOD	422	14.97%
3	LB BULGARICUM EAD	152	5.39%
4	COMAC MEDICAL EOOD	139	4.93%
5	PHARMACEUTICAL RESEARCH ASSOCIATES BULGARIA EOOD	66	2.34%
6	INSTITUT PO HIDRAVLIKA EOOD	50	1.77%
7	IVO PETROW - ARCHITECTS OOD	41	1.45%
8	R & D SERVICES OOD	40	1.42%
9	MEDICAL CENTER COMAC MEDICAL EOOD	39	1.38%
10	INSTITUT PO TSELULOZA I HARTIA AD	37	1.31%

The Scientific research and development industry is the 65th largest employer in the country with 2,819 employees with the largest employer being Retail trade, except of motor vehicles and motorcycles with 234,189 and Libraries, archives, museums and other cultural activities at the bottom with 54 employees.

The Scientific research and development's share in the country's total employment was 0.12% in 2016, 0.15% in 2015 and 0.15% in 2014.

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 2.14% in 2017.

The industry is represented by the following companies

SMART SOLAR SISTEMS OOD AR END DI BULGARIA EOOD MAKRO GE OOD INNOPHARMA INTERNATIONAL BG EOOD OPITNA STANTSIYA PO POLIVNO ZEMEDELIE-INSTITUT PO HIDRAVLIKA EOOD SPETSIALNI POLIMERI 99 OOD RF AMPLIFIER BG EOOD INOVATSII OOD UPASS OOD EMMA M EOOD YADRENI TEHNOLOGII EOOD ZELENI TEHNOLOGII INDASTRI OOD SELSENZOR OOD **IGNAT IGNATOV ET** GRADIENT BULGARIA EOOD BIOMEDIKAL INTERNESHANAL SARVISIZ EOOD KERAMTEH OOD PLAM ENERDZHI AD OPTIMOBIL EOOD DRIYM ART HOUM EOOD PRO - VAL EOOD **TECHNOPHOS EAD** DINAMIK FOST EOOD **AEVOS EOOD** PIN CONSULT EOOD PLANT TEH EOOD INNOVA RM OOD SMALL FOOT OOD LOGISOFT EOOD PRO BIO TEH AD EKIP 2000-KOTOV& CO PARTNERSHIP SD CLOUDSIGMA RESEARCH EOOD AFTA OOD MEDITRIAL INTERNATIONALS EOOD ROTRIAL KLINIKAL RISARCH BULGARIA OOD FIDELIS RESEARCH AD INOVATSIONEN I IZSLEDOVATELSKI TSENTAR ZA BIOMEDITSINA BIOTEHNOLOGII I FITOTERAPIA **EXPERTISE & CONSULTATION CENTER - RUSE** BIOTECHFARM OOD GRIYNHAYTEK OOD INO SMART KLINIKAL OOD MASTERHERB EOOD BIOM EOOD LB ORIGINAL EOOD TELECHIM OOD AQUARIUS ND OOD ARC CONSULTING EOOD BOGOMEL EOOD **NEW ENERGY GROUP EOOD** JLSOUNDS OOD EYCH ES ES EOOD BIO TREE OOD KLIARKOUD FOOD ET OBTEH BUILDING RESEARCH INSTITUTE NISI EOOD

MINGEOUNIVERS INZHENERING NIS MGU EOOD

PIPAL EYDZHANSI EOOD VITOSHA RESEARCH FOOD TECHNIK PARTNER BG AD TONEVI 21 OOD ENDECTOVET EOOD PLDA EOOD EUROPEN INSTITUTE FOR INNOVATIONS AND STRATEGIC ANALYSIS OOD WATER FUEL ENGINEERING BULGARIA OOD SEDPORTAL EOOD INNOVATO CLINICAL EOOD NANOFER FOOD GENUINE NATURAL SOLUTION OOD INSTITUT PO TSELULOZA I HARTIA AD SASTEYNABAL SISTEMS OOD AUTO PARK BULGARIA JSK EAD KLINRES FARMATSIA BULGARIA OOD IOMTEX EOOD IQVIA RDS BULGARIA EOOD **BIOTEH PROEKT 2016 OOD** POBELCH GLE OOD **BALKAN RESEARCH OOD** INTERNET CORPORATED NETWORKS EOOD PROKSADZHEN OOD **LUNAL EOOD** DZZD ALIANTS ZA KLETACHNI TEHNOLOGII /AKT/ PRO NANO TEH AD DEMASYS OOD R & D SERVICES OOD IVO PETROW - ARCHITECTS OOD RESEARCH CENTER TREND OOD VGD ENGINEERING OOD ELEKTROHIMICHNI TEHNOLOGII OOD DZZD BIOINOVEYTIV PUL LUMYCOMP DESIGN EOOD OPITNA STANTSIYA PO KAYSIYATA I ZEMEDELIETO-SILISTRA NINETY NINE OOD PRO 50 EOOD SOLVENTER OOD LB LAKT VAL OOD INSPECTUS EOOD LABORATORIYA MEDITSINSKI RESHENIYA OOD WATER AND SLUDGE RESEARCH INSTITUTE AN ENERGY EOOD LUMINOS TRAYLS OOD TECHNICAL UNIVERSITY-SOFIA-TECHNOLOGY SOLERY OOD LIFE SCIENCE PROJECTS AD CENTRE FOR DISRUPTIVE INNOVATION EOOD BINOVATION EOOD

APPLICATION SOFTWARE SYSTEMS OOD

/BORA/ EOOD

INNOSLAB OOD

BALGERIAN ORGANAYZD RISARCH AKTIVITIS

NAVEKS AD

OSS PAVLIKENI DE

MARIN ADVANSED TEKNOLODZHIS OOD MEDIKO-DENTALEN TSENTAR MEDIKAL DENT ENI LEK LYUDMILA LYUBENOVA EOOD ESEO CONSULT EOOD PAVEL PENCHEV KONYLTING ET SOLFUTURE EOOD AURORA STAR OOD XCULT OOD OPITNA STANTSIYA PO ZEMEDELIE SREDETS DP ET FOI-KOMERS -KRASIMIR MARKOV COMERG FOOD TSENTAR 7A BIOLOGICHNO-AKTIVNI VESHTESTVA EOOD MIKON K EOOD PROVITI FAD ZGURA - M EOOD ET ADZHAROV - TODOR ADZHAROV ET KSIMETRO-TATYANA NIKOLOVATA IO-DZHES KONSULT EOOD ET GERA - STEFAN GERASIMOV NANOBIOREM OOD KOMPANIA ZA ENERGIYNO OBSLEDVANE ZENIT EN NANO TEH OOD **CREDIT SOLUTION EOOD** OPITNA STANTSIYA PO ZEMEDELIE KARDZHALI UINDMIL ENERDZHI EOOD **ROBOS AD** IMUNOLAB EOOD MONOV CONSULT EOOD PPD BULGARIA EOOD AKUMULATOREN CENTAR EUROPE EOOD AEIFORIA HELLAS EOOD ARMACO ENGINEERING AD RASHO RASHKOV-54 ET INDUSTRIAL ENGINEERING INNOVATIONS & WORLDWIDE CLINICAL TRIALS BUL EOOD OOD ADIASIS WELLNESS AND HEALTH INNOVATIVE DECISIONS **CLUSTER OOD** ROBOSKUL OOD GLOBAL BIOMED AY TI OOD MURA BULGARIA OOD PRIRODEN DIZAYN OOD SAVMESTEN GENOMEN TSENTAR OOD NEVRON TECHNOLOGIES FOOD SCIENCE RESEARCH ENTERPRISE EFFECTIVE **ENGINEERING SOLUTIONS EOOD** DZHI-KA1 EOOD BROMET EOOD TECHNICAL INNOVATIONS EOOD DZHENERAL TREYD KORPOREYSHAN EOOD OPITNA STANTSIYA PO LOZARSTVO SEPTEMVRI INNOVTEH EOOD STALKER - K M EOOD TUTUNOCHKO EOOD SCHILLER ENGINEERING-SOFIA EOOD GRAPHENE INNOVATIONS LLC OOD

FARMARIKS EOOD SIVIKO OOD EXON FOOD VIZHAN PROTEKT EOOD ECOPRAXIS EOOD HYDROKOM OOD INNOVEST OOD DRONE BULAGARIA EOOD SPACELAB OOD EON INOVEYSHAN EOOD BIAVIN EOOD DMTECH EOOD SEYF NET SIS OOD DZHILAB EOOD CT CLINICAL SERVICES EOOD INSTITUT ZA CHISTI TEHNOLOGII EOOD ANALYTICAL SYSTEMS AND ELECTRONIC TECHNOLOGIES OOD **ET METROKAD** OPITNA STANTSIYA PO ZEMEDELIE-DP-YAMBOL **USM TECH EOOD EOOD ESENSHAL FARM** ET SHINGO -ANGEL TERZIYSKI **DITRONIK EOOD ENVIROTECH OOD** BCT-GLOBAL FOOD UNIGENETIC FOOD PUBLIC PROCUREMENT NATIONAL CONSULTANT SOFIEN RIAHI AMBULATORIA ZA INDIVIDUALNA PRAKTIKA ZA PARVICHNA DENTALNA POMOSHT INOVATIKS EOOD HROMANA EOOD TEK ENERDZHI OOD IVO GEORGIEV ILIEV MILPAIN AD D I G EKOSISTEMS KONSULT OOD RIAYGERS OOD TSIT AD CHASTEN INSTITUT ZA VODNI TEHNOLOGII **ESENSELAB OOD** SMARTLAB BULGARIA EOOD TITAL KOMERS BULGARIA EOOD **ELIFARM EOOD** PETROMARK LIMITED EOOD D END R EOOD INOVEYTIV DESIZHANS OOD DICS INTERTRADE OOD NATSIONALEN INSTITUT ZA IZSLEDVANE NA VINO SPIRTNI NAPITKI I ETERICHNI MASLA EOOD OPITNA STANTSIYA PO KARTOFITE-SAMOKOV INSTITUTE FOR MANAGEMENT AND OPERATIONAL RESEARCH - GANTT EOOD

BIOHART OOD

NIPTIAT OOD

EKOTEHNOLOGII 21 DZZD

BIBLIOTEKA ZEMEDELSKO OBRAZOVANIE EOOD

BLESIDZH LPD EOOD

DRON 1 OOD

BULGARIA EOOD

T I K RISARCH OOD

BV INOVEYSHAN EOOD

APROKSIMA EOOD

HERBITOUR EOOD

NTL CHEMICAL CONSULTING BULGARIA EOOD

EPALTRI KLINIKAL INVESTIGEYSHANS EOOD	KVANTATSEYA OOD	BIO LABS LLC. EOOD	IBFOTONIKA EC
EKSPERIMENTALIKA EOOD	GEOSERVIZ - 4 OOD	FOOD TRANSFER CENTER OOD	EKS KOLEKT EO
6M EOOD	OPITNA STANTSIYA PO ZEMEDELIE - VIDIN DP	GLOBAL INNOVATIONS OOD	TEH RISARCH E
HT RESEARCH BG EOOD	ELECTRON CONSORTIUM AD	INOBAT OOD	BEST PARTNERS
BIOSIMILARS OOD	INOVITO OOD	NOVAINVENT EOOD	ARIOR OOD
IZSLEDVANE I RAZRABOTVANE NA NANOMATERIALI I NANOTEHNOLOGII - NANO	ELEKTRON KARDIO OOD	PROJECT 1 EOOD	CAPPRESS - YO
TEH LAB OOD	ALTERNATIVE FOR INCLUSIVE PROGRESS EOOD	MEDICAL CENTER COMAC MEDICAL EOOD	ET DIMITRIN DI
NIS - ES PI VI EOOD	ET TRIBOTEH INZHENERING	RISK SPEYS TRANSFER DZZD	LB LAKT OOD
KMK PHARMA EOOD	MEMBREYN TEKNOLODZHIS OOD	EDNORO OOD	R ACTION OOD
GREEN INNOVATIONEOOD OOD	ALBEGA OOD	RPS BULGARIA EOOD	ADEX ENERGY
EURON EOOD	BNOTSEOOS	EUROPEAN PROGRAM ADVISORY EOOD	TIMAXMED OC
LUNATONE - BG OOD	101 TM OOD	PROTEY M EOOD	BI EN 1 EOOD
ECOTECH GLOBAL EOOD	DEX LAB EOOD LAZARUS EOOD	FINBOLT EOOD	MEDTEST OOD
ABSEI OOD	MEDICAL CENTRE SYNEXUS SOFIA EOOD	OTEH OOD	
3C PROJECT OOD	CHURLINOV- AMBULATORIA ZA INDIVIDUALNA	INOUT PRO OOD	AVIOLABS OOD
LABORATORIES PROTECTA OOD	PRAKTIKA ZA PARVICHNA DENTALNA POMOSHT	MASTERDENT EOOD	DI EM EM KON
BIODIAGNOSTIC EOOD	EOOD	LI - NEO BG EOOD	RESBIOMED OC
CHECK POINT R&D OOD	TODU EOOD	ARSEN DEVELOPMENT EOOD	INOKOTEK DIV
ENERDJI MAKS EOOD	DP OPITNA STANTSIYA PO BUBARSTVO I ZEMEDELIE - VRATSA	ET KOMTEH	VI SI INZHENER
TRIFONOV INOVATIX EOOD	PLAZMA CONTROL OOD	INTERPROJECTS EOOD	ENERGY SAVIN
INOVATSIONEN I IZSLEDOVATELSKI TSENTAR EOOD	GEOTEHINZHENERING OOD	RIYN EOOD	CLEANTECH BU
MEZHDUNARODNA TURISTICHESKA AKADEMIYA	DARIMPEKS LIMITED - TP	YANUS ADVAYZARI GRUP EOOD	SOFTUERNA KA
ITAKA - ALBENA EOOD	ADELANDA EOOD	SINTEH MEDIKAL OOD	SMART FAB LA
NAUCHNO TEHNOLOGICHNO OBSLUZHVANE -	MEDICAL CENTER EXCELSIOR OOD	RAND MINERALS OOD	UNION INDUST
NTO OOD	INTERACTIVE GAMES OOD	ALENA SOLAR OOD	BREC OOD
PKINI -EKOPAN EOOD	BIOTEH VT OOD	INTERNATIONAL INNOVATIVE TECHNOLOGIES	INTEL ENERGY
NUKLEUS EOOD QUEO EOOD	SHAREN EOOD	EOOD	SOLARLAB OOD
DI ESENS OOD	OGRA EOOD	DIAL OOD	DZZD AKVA EN
VEDAMO EAD	ARKITEKCHARAL SPAYS EOOD	INVENT EOOD	Q A C OOD
EFFECT CONSULT OOD	I YU PI EY FINANS END EDYUKEYSHAN EOOD	KLAUD BEYSIK BULGARIA EOOD	KORTEKNET BU
EKO INOVATSII OOD	ET SVETLA GEORGIEVA - MINERA	NAUCHNO IZSLEDOVATELSKI INSTITUT PO	NYU ENERDZHI
BULGARSKI TSENTROVE ZA KLINICHNI	PRINT CAST OOD	STROITELNI MATERIALI EOOD MOZAYKA EOOD	SI DZHI ES KON
PROUCHVANIA OOD	GRIYN ANALAYZIS EOOD	ATIKA KREDIT EOOD	ECOSTAR - S EC
ET LAROSSA REYKI LILYANA ORESHAROVA	GIS INNOVATIVE EOOD	MIKS-BIO OOD	BOXCOL OOD
MEDISTAT EOOD	LIYD BIOTERAPYUTIKS EOOD	LB BULGARICUM EAD	S D DIZAYN OC
VIZHAN PERFEKT G EOOD	MAKSIMOV KONSULT AD	ZEINCRO BULGARIA EOOD	INNOVARIVER (
ARHEO-LOGIKA EOOD	PROTOS-H EOOD	ORIDZHIA EOOD	MICRONA OOD
3VM EOOD	ABM GRIYN ENERDZHI OOD	NATIONAL LABORATORY BUL ROSE OOD	OL ASPEKTS EO
BIOINNOVATIVE AD	NOVARTO INVEST OOD	GG K GEODEZIA MLADENOVSKI S IE SD	HALOUFIYLD IN
CONVEX EOOD	SYNEXUS BULGARIA EOOD	ET - DIMITAR PARLAPANSKI YURAPIAN	NECHARAL ENA
ET TIYM INTELEKT - NEVYANA BUMBAROVA	CLINIC DESIGN EOOD	INSTITUTE FOR MEDICAL RESEARCH OOD	00D
INOBIOTEH EOOD	ECO-CONSULT-ENGINEERING OOD	PING UIN OOD	REYA-K.IVANO
ET MARIYANA YANEVA	NOVA TEHNOLOGIYA-IVAN GRIGOROV EOOD	MIKS INZHENERING EOOD	BIO-IMAGING
VAYRILIYV OOD	PARKING & ANTI-PARKING OOD	CITY CENTER DENTAL CABINET - AMBULATORIA	GD INZHENERII
PL PRODZHEKT OOD	SLIM FIT EOOD	ZA INDIVIDUALNA PRAKTIKA ZA PYRVICHNA DENTALNA POMOSHT EOOD	ADJAROV TECH
DZHI AR TI INTERNESHANAL	NANOTEHPLAZMA OOD	TOP NOVELTY EOOD	MADJENTA EO
ENP MOTORS EOOD	THETA CONSULT OOD	MASHTEH BG OOD	FLAG-N EOOD
ROMB OOD	GREON EOOD	SCTLTD EOOD	KP DENT - AMB PRAKTIKA ZA P.
HIGH - TECHNOLOGY PARK - TU VARNA EOOD	DZZD S.E.G.AISIM-PRAYM KONSULTING OOD	GROUING BOKS OOD	EOOD
STOILOV RM EOOD	THERMOINVENT EOOD	EKSI MED PLYUS OOD	BMM AD
SENTRO OOD	MEGAKORN - T EOOD	EY BI ES INVEST EOOD	
NAVEL OOD	STAPET EOOD		
HIBRID STORIDZH EOOD	ONTOIDEA EOOD	TPN 2013 EOOD POLIVID OOD	
LB LACT BAS EOOD	ACCELSIORS BULGARIA EOOD	SARON EOOD	
ASTORIA EOOD	TOPCAP 2016 EOOD	INNOVATICS-2016 OOD	
ALCAZAR COMMERCE EOOD	COMAC MEDICAL EOOD	MEDIKUS VALKOVA-RADEVA EOOD	
NEUROECONOMICS LABS EOOD	SODREVIR EOOD	HDO OOD	
MICROTECH OOD	LAYF PROTEKNOLODZHI AD	PHARMACEUTICAL RESEARCH ASSOCIATES	
SASHA TEHNOLODZHI OOD	ESOT EOOD	BULGARIA EOOD	
OVIRON EOOD	SARK DISRAPTIV TEHNOLADZHI OOD	BIO INOVATSII OOD	
KOBALT-H EOOD	DEVISION OOD	VITAMETRICS OOD	

OOD OOD EOOD RS EOOD ORDAN GEORGIEV ET DIMITROV / EOOD OD ERALS DIVELAPMANT OOD NSULT EOOD VELAPMAT OOD RING EOOD NG EOOD ULGARIA OOD ASHTA FIPS KEMALOV EOOD AB OOD TRY AD D NV ULGARIA EOOD HI DIVELAPMANT EOOD NSULT EOOD OOD OOD NZHENERING EOOD IARDZHI RISORSIS DIVELOPMANT OV EOOD OOD ING EOOD HNOLOGY EOOD DOD BULATORIA ZA INDIVIDUALNA PARVICHNA DENTALNA POMOSHT

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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.

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