

Life Science industries in Kent

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NOTE: *within this bulletin 'Kent' refers to the Kent County Council (KCC) area which excludes Medway*

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Life science industries are those which are involved with pharmaceuticals, medical technology (devices and diagnostics) and medical biotechnology. They contribute toward human health and the well-being of the population.

This bulletin looks at the number of enterprises and employee jobs in life science industries in Kent.

Summary

- 2.6% of businesses in Kent as at 2020 were life science enterprises, slightly lower than the England average of 2.8%
- Maidstone district has the highest number of life science enterprises (215) in Kent.
- The majority of life science enterprises in Kent (77.2%) are human health industries (which includes hospitals, medical and dental practices)
- 8.4% of employee jobs in Kent are in life science (9.3% in the South East, 8.8% in England)
- Life science jobs have grown by 7.4% national since 2015. Kent saw a small reduction of 1.0%.
- The majority of life science employee jobs in Kent (83.8%) are in human health industries

Introduction

Life science industries are those which are involved with pharmaceuticals, medical technology (devices and diagnostics) and medical biotechnology. They contribute toward human health and the well-being of the population.

In 2017 the government launched its Life Science Industrial Strategy and subsequent Life Sciences Sector Deals to develop the existing strength of the life sciences sector, encourage the development of new pioneering treatments and medical technologies and to increase the economic growth in the sector.

Data on the pharmaceutical and medical technology sectors is based on Standard Industry Classification (SIC) codes (SIC 2007). This is the main classification system used for EU industrial statistics, however, the only categories for life science industries within the classification are those for companies whose primary activity is manufacturing (e.g. pharmaceuticals and medical devices) or those whose primary activity is research in biotechnology (which includes non-health biotechnology). The classification system does not adequately reflect the size and shape of the UK life science sector as a whole as many sub-sectors cannot be separately identified.

For the purposes of this bulletin we have extended the definition of life science to include:

2007 SIC	Life Science Industries
	Medical & Pharmaceutical Production
21	Manufacture Of Basic Pharmaceutical Products And Pharmaceutical Preparations
26.6	Manufacture of irradiation, electromedical & electrotherapeutic equipment
32.5	Manufacture of medical & dental instruments & supplies
	Human Health
86.1	Hospital activities
86.2	Medical and dental practice activities
86.9	Other human health activities (includes activities of nurses, midwives, physiotherapists or other paramedical practitioners, laboratories and diagnostic testing, Xray and imaging, blood banks)
	Wholesale & retail
46.46	Wholesale of pharmaceutical goods
46.75	Wholesale of chemical products
47.73	Dispensing chemist in specialist store
47.74	Retail of medical and orthopaedic goods in specialist store
	Research & experimental development
72.11	Research & experimental development on biotechnology
72.19	Other research & experimental development on natural sciences and engineering

This bulletin looks at the number of enterprises and the number of employee jobs created by the industry in Kent and Medway compared to the South East and England.

Enterprises

The estimated number of enterprises comes from information from the UK Business Counts dataset produced by the Office for National Statistics (ONS). The UK Business Counts dataset is an extract compiled from the Inter Departmental Business Register (IDBR) which contains information on VAT traders and PAYE employers. The UK Business Counts dataset records the number of enterprises that were live at a reference date in March each year giving a snap shot of businesses that were live at this point in time. It is broken down by size band, industry, turnover and age of business. Further information about the methodology used for producing these data is available from the Office for National Statistics.

The latest data is for 2020.

Employee jobs

The number of employee jobs in the manufacturing sector comes from information from the Business Register and Employment Survey (BRES) produced by the ONS. The BRES is a sample survey which collects employment information from businesses across the whole of the Great Britain economy for each site that they operate. The survey covers all businesses in Great Britain registered for VAT and/or PAYE. BRES does not cover the very small businesses neither registered for VAT nor PAYE, neither does it include self employed workers unless they are registered for VAT or PAYE.

The data provides us with an estimate of employee jobs and total employment (number of employees plus the number of working owners)

BRES is a sample survey and produces estimated employment figures. These estimates are of a good quality at higher levels of geography (for example region), however the quality of the estimates deteriorates as the geographies get smaller. This should be taken into account when considering the quality of county and district estimates.

The survey provides us with estimates of employees by industrial sector. The manufacturing sector used in this bulletin is defined using the 2007 Standard Industrial Classification (2007SIC). Detailed information about the types of industry which make up each of the industrial sectors is available from the UK Standard Industrial Classification of Economic Activities published by the Office for National Statistics.

In accordance with official guidelines the data is rounded to the nearest 100 prior to publication. Percentages are calculated using unrounded data.

The latest data is for 2019.

Life Science Industry Enterprises

The UK Business Counts dataset records the number of enterprises that were live as at March each year, giving a snap shot of businesses that were operating at this point in time. It is broken down by size band, industry and turnover.

All numbers are rounded at source. Values may be rounded down to zero and so all zeros are not necessarily true zeros. Totals across tables may differ by minor amounts due to the disclosure methods used.

2.8% of enterprises in England were life science enterprises as at 2020. The South East region is equal to the national figure at 2.8%.

The South East had the second highest number of life science enterprises (11,585) after London (14,430).

Table 1: Life science enterprises by region

Life Science enterprises			Change since last year		5 year change	
2020	Number	%	Number	%	Number	%
England	66,745	2.8%	910	1.4%	2,700	4.2%
North West	8,670	3.2%	115	1.3%	375	4.5%
Yorkshire and The Humber	5,650	3.0%	130	2.4%	380	7.2%
West Midlands	6,510	2.9%	135	2.1%	310	5.0%
North East	2,055	2.9%	-20	-1.0%	-15	-0.7%
South East	11,585	2.8%	125	1.1%	580	5.3%
East	7,465	2.8%	45	0.6%	365	5.1%
London	14,430	2.7%	265	1.9%	335	2.4%
East Midlands	4,795	2.6%	15	0.3%	85	1.8%
South West	5,585	2.4%	100	1.8%	285	5.4%

Source: UK Business Counts

Presented by: Kent Analytics, Kent County Council

The number of life science enterprises has grown over the last five years, up 4.2% nationally.

The South East region saw a 5.3% increase in life science enterprises over the last five years, above the national average.

Kent had a slightly smaller proportion of life science enterprises than the regional average as at March 2019. 1,670 life science enterprises in the county accounted for 2.6% of all enterprises in Kent.

Maidstone district had the highest number of life science enterprises in the Kent County Council area (215) while Dover district had the highest proportion (3.4%, 120 enterprises). In the wider Kent and Medway area Medway unitary authority had 245 life science enterprises accounting for 2.7% of all enterprises in that area.

Table 2: Life science enterprises

2020	Total enterprises	Life Science enterprises		Change since last year		5 year change	
	Number	Number	%	Number	%	Number	%
Ashford	6,575	155	2.4%	5	3.3%	15	10.7%
Canterbury	5,400	165	3.1%	15	10.0%	-5	-2.9%
Dartford	4,855	120	2.5%	-10	-7.7%	0	0.0%
Dover	3,570	120	3.4%	-5	-4.0%	10	9.1%
Folkestone & Hythe	3,750	75	2.0%	-5	-6.3%	-15	-16.7%
Gravesham	4,045	120	3.0%	5	4.3%	20	20.0%
Maidstone	7,650	215	2.8%	0	0.0%	-5	-2.3%
Sevenoaks	6,710	160	2.4%	5	3.2%	10	6.7%
Swale	5,020	110	2.2%	-5	-4.3%	0	0.0%
Thanet	4,050	95	2.3%	-5	-5.0%	-5	-5.0%
Tonbridge & Malling	6,055	150	2.5%	-10	-6.3%	-5	-3.2%
Tunbridge Wells	6,330	175	2.8%	0	0.0%	10	6.1%
Kent	64,005	1,670	2.6%	0	0.0%	40	2.5%
Medway	8,885	240	2.7%	-5	-2.0%	-10	-4.0%
Kent + Medway	72,890	1,910	2.6%	-5	-0.3%	30	1.6%
South East Region	418,370	11,585	2.8%	125	1.1%	580	5.3%
England	2,390,970	66,745	2.8%	910	1.4%	2,700	4.2%

Source: UK Business Counts

Presented by: Kent Analytics, Kent County Council

The number of life science enterprises in Kent and Medway MSOAs is shown in the following map. MSOAs are a geographic hierarchy designed to improve the reporting of small area statistics in England and Wales.

Map 1: Number of life science enterprises in Kent & Medway MSOAs

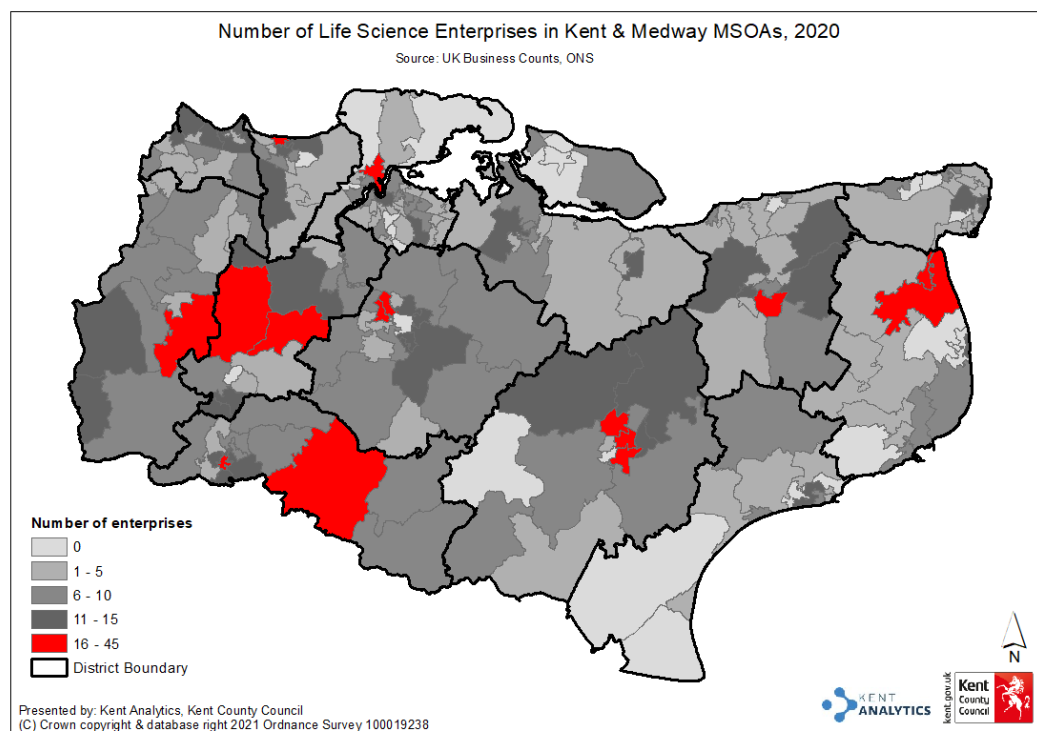
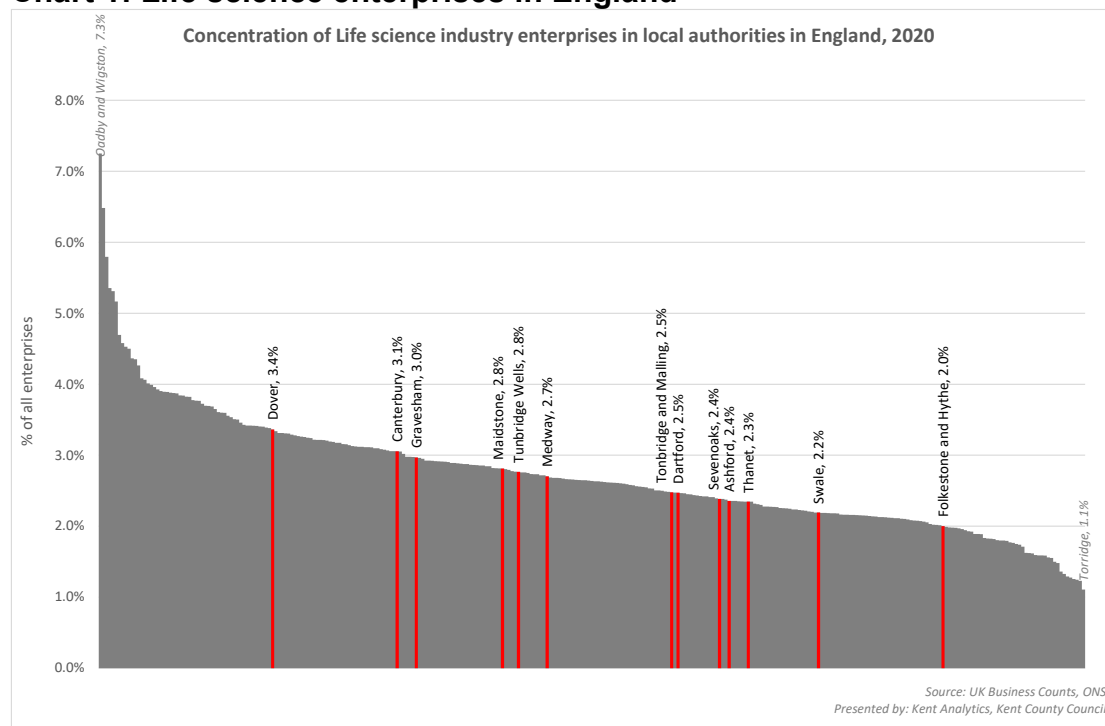


Chart 1 shows the proportion of life science enterprises in local authorities in England. Dover district is the only Kent local authority which appears within the top 20% of districts with the highest concentration of life science enterprises in the country (3.3% of enterprises or more). Dover ranks 55th out of 309 local authorities in England. Folkestone & Hythe was the only Kent district to be within the 20% of authorities with the lowest proportion.

Chart 1: Life science enterprises in England



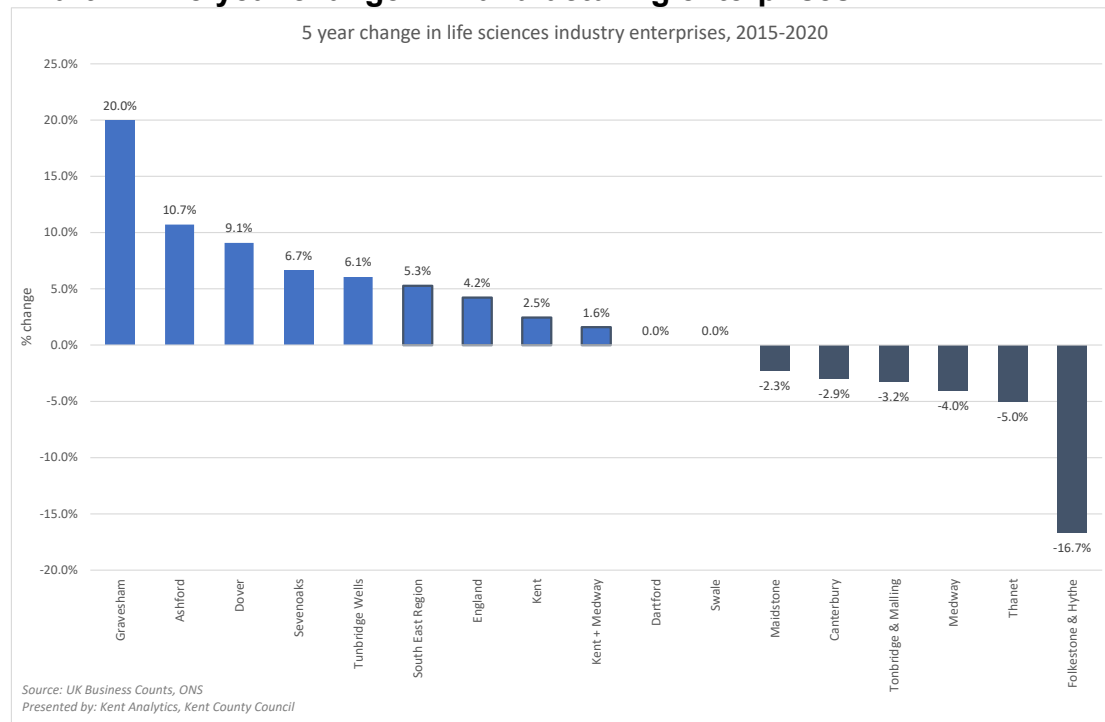
The number of life science enterprises in Kent has increased by 2.5% over the last five years. In Kent Gravesham saw the biggest number increase with 20 more life science enterprises than five years ago, an increase of 20%. Five districts saw the number of life sciences enterprises fall slightly over the last five years.

Medway unitary authority saw a reduction of 10 life science enterprises, equivalent to a fall of 4.0% over the last five years.

Over the last year four Kent authorities saw an increase in life science enterprises (Canterbury +15, Dover +10, Ashford +5 and Sevenoaks +5). Two authorities saw no change in the number of enterprises and the remaining six authorities saw a reduction. Dartford and Tonbridge & Malling saw the biggest fall in life science enterprises (-10 enterprises each).

Medway unitary authority saw the number of life science enterprises fall by 0.3% since 2019 (5 fewer businesses).

Chart 2: Five-year change in manufacturing enterprises



To look at the industry in greater detail we have subdivided the life science industry into six broad groups:

Medical & Pharmaceutical Production – including the manufacture of pharmaceutical products and preparations, manufacture of therapeutic medical equipment and the manufacture of medical and dental instruments and supplies

Human Health – activities involved directly with human health such as hospitals and medical practice activities, diagnostic testing and blood banks

Wholesale & Retail – wholesale and retail of pharmaceutical and chemicals goods, dispensing chemists and sale of medical and orthopaedic goods

Research & Experimental Development – including development on biotechnology and other natural sciences and engineering research and development.

Human health accounts for the majority of life science enterprises in all areas. They account for 77.2% of all life science enterprises in Kent (79.2% in Medway).

Table 3: Make up of life science enterprises

2020	Total Life science	Medical & pharmaceutical production	Human health	Medical & pharmaceutical wholesale & retail	Research & experimental development
Ashford	155	5	125	20	5
Canterbury	165	5	130	15	15
Dartford	120	5	90	20	5
Dover	120	10	70	10	30
Folkestone & Hythe	75	0	60	15	0
Gravesham	120	10	90	20	0
Maidstone	215	10	170	30	5
Sevenoaks	160	10	125	20	10
Swale	110	5	80	15	10
Thanet	95	5	75	10	5
Tonbridge & Malling	150	5	130	10	5
Tunbridge Wells	175	5	150	20	5
Kent	1,670	70	1,290	210	105
Medway	240	10	190	35	5
Kent + Medway	1,910	75	1,480	245	110
South East	11,585	490	8,415	1,610	1,070
England	66,745	2,450	50,230	9,625	4,445

Source: UK Business Counts

Presented by: Kent Analytics, Kent County Council

In Dover, research & experimental development enterprises account for a quarter of all life science enterprises, considerably higher than anywhere else in Kent. This is largely due to the location of the Discovery Park enterprise zone at Sandwich, the former Pfizer site.

In Folkestone and Hythe, Dartford and Gravesham medical and pharmaceutical wholesale and retail account for a higher proportion of life science enterprises than other parts of the county (20.0%, 16.7% and 16.7% respectively).

Medical and pharmaceutical production enterprises account for a higher than average proportion of life science enterprises (8.3%) in Gravesham and Dover.

Table 4: Proportion of life science enterprises by manufacturing type

2020	Total Life science	Medical & pharmaceutical production	Human health	Medical & pharmaceutical wholesale & retail	Research & experimental development
Ashford	100%	3.2%	80.6%	12.9%	3.2%
Canterbury	100%	3.0%	78.8%	9.1%	9.1%
Dartford	100%	4.2%	75.0%	16.7%	4.2%
Dover	100%	8.3%	58.3%	8.3%	25.0%
Folkestone & Hythe	100%	0.0%	80.0%	20.0%	0.0%
Gravesham	100%	8.3%	75.0%	16.7%	0.0%
Maidstone	100%	4.7%	79.1%	14.0%	2.3%
Sevenoaks	100%	6.3%	78.1%	12.5%	6.3%
Swale	100%	4.5%	72.7%	13.6%	9.1%
Thanet	100%	5.3%	78.9%	10.5%	5.3%
Tonbridge & Malling	100%	3.3%	86.7%	6.7%	3.3%
Tunbridge Wells	100%	2.9%	85.7%	11.4%	2.9%
Kent	100%	4.2%	77.2%	12.6%	6.3%
Tonbridge & Malling	100%	4.2%	79.2%	14.6%	2.1%
Kent + Medway	100%	3.9%	77.5%	12.8%	5.8%
South East	100%	4.2%	72.6%	13.9%	9.2%
England	100%	3.7%	75.3%	14.4%	6.7%

Source: UK Business Counts

Presented by: Kent Analytics, Kent County Council

Looking in more detail at the enterprises which are classified as life science based it shows that medical and dental practice activities account for the majority of total life science enterprises. They account for 44.9% of all life science enterprises in Kent (43.8% in Medway).

Largely the make up of life science enterprises in Kent and Medway reflects the regional and national profile.

Table 5: Detailed life science enterprises

2020	Kent	Medway	South East	England
Total Life science	1,670	240	11,585	66,745
Medical & pharmaceutical production	4.2%	4.2%	4.2%	3.7%
<i>Manufacture Of Basic Pharmaceutical Products And Pharmaceutical Preparations</i>	0.9%	0.0%	1.1%	0.9%
<i>Manufacture of irradiation, electromedical & electrotherapeutic equipment</i>	0.0%	0.0%	0.3%	0.2%
<i>Manufacture of medical & dental instruments & supplies</i>	3.3%	2.1%	3.0%	2.6%
Human health	77.2%	79.2%	72.6%	75.3%
<i>Hospital activities</i>	4.2%	4.2%	3.9%	3.9%
<i>Medical and dental practice activities</i>	44.9%	43.8%	41.3%	42.7%
<i>Other human health activities</i>	28.1%	29.2%	27.5%	28.6%
Medical & pharmaceutical wholesale & retail	12.6%	14.6%	13.9%	14.4%
<i>Wholesale of pharmaceutical goods</i>	3.9%	2.1%	4.3%	3.7%
<i>Wholesale of chemical products</i>	1.5%	2.1%	2.2%	2.1%
<i>Dispensing chemist in specialist store</i>	5.1%	8.3%	4.1%	6.6%
<i>Retail of medical and orthopaedic goods in specialist store</i>	1.8%	2.1%	3.2%	2.0%
Research & experimental development	6.3%	2.1%	9.2%	6.7%
<i>Research & experimental development on biotechnology</i>	1.8%	0.0%	2.2%	1.5%
<i>Other research & experimental development on natural sciences & engineering</i>	4.5%	2.1%	7.1%	5.1%

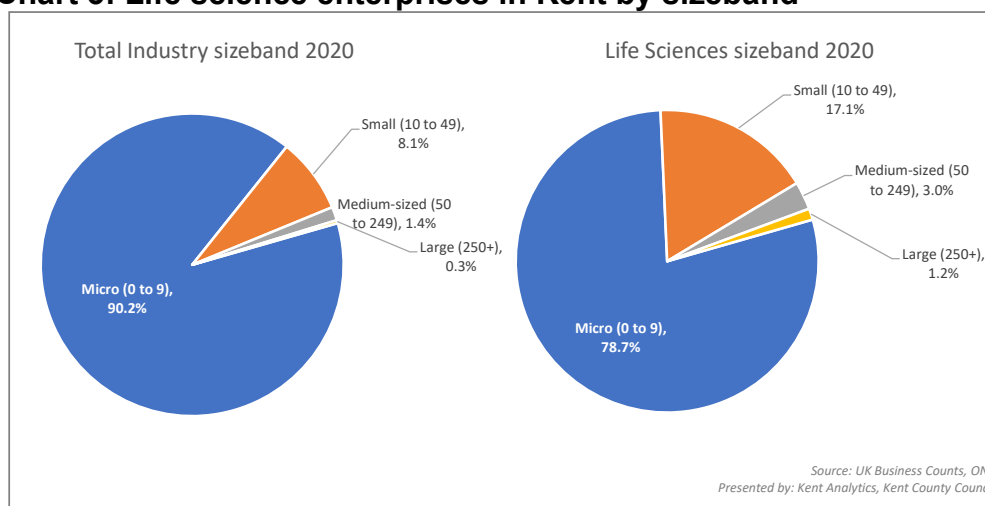
Source: UK Business Counts

Presented by: Kent Analytics, Kent County Council

An enterprise can be classified as a micro, small, medium sized or large depending upon the number of workers it employs.

The majority of enterprises in Kent (90.2%) are micro enterprises employing 0-9 workers. Life science enterprises in Kent are less likely to be micro enterprises (78.7%). They are more likely to be classified as a small enterprise employing 10-49 workers (17.1%) or medium sized employing 50-249 workers (3.0%).

Chart 3: Life science enterprises in Kent by sizeband



Canterbury (3.0%), Maidstone (2.3%), Tonbridge and Malling (3.3%), Swale (4.5%) and Medway (2.1%) have a higher proportion of life science enterprises which are classified as large (employing 250 workers or more) than the national (0.9%) or regional (1.2%) average.

Table 6: Life science enterprises - sizebands

2020	Employment sizeband - Life Sciences enterprises					Percentage of all enterprises			
	Total	Micro (0 to 9)	Small (10 to 49)	Medium-sized (50 to 249)	Large (250+)	Micro (0 to 9)	Small (10 to 49)	Medium-sized (50 to 249)	Large (250+)
Ashford	155	130	20	5	0	83.9%	12.9%	3.2%	0.0%
Canterbury	165	135	20	10	5	81.8%	12.1%	6.1%	3.0%
Dartford	120	95	20	5	0	79.2%	16.7%	4.2%	0.0%
Dover	120	100	20	0	0	83.3%	16.7%	0.0%	0.0%
Folkestone & Hythe	75	55	20	0	0	73.3%	26.7%	0.0%	0.0%
Gravesham	120	90	25	5	0	75.0%	20.8%	4.2%	0.0%
Maidstone	215	165	35	10	5	76.7%	16.3%	4.7%	2.3%
Sevenoaks	160	135	25	0	0	84.4%	15.6%	0.0%	0.0%
Swale	110	85	20	5	5	77.3%	18.2%	4.5%	4.5%
Thanet	95	75	20	5	0	78.9%	21.1%	5.3%	0.0%
Tonbridge & Malling	150	115	25	5	5	76.7%	16.7%	3.3%	3.3%
Tunbridge Wells	175	130	45	5	0	74.3%	25.7%	2.9%	0.0%
Kent	1,670	1,315	285	50	20	78.7%	17.1%	3.0%	1.2%
Medway	240	175	55	5	5	72.9%	22.9%	2.1%	2.1%
Kent + Medway	1,910	1,490	340	60	25	78.0%	17.8%	3.1%	1.3%
South East	11,585	9,125	1,935	390	135	78.8%	16.7%	3.4%	1.2%
England	66,745	52,600	11,730	1,790	620	78.8%	17.6%	2.7%	0.9%

Source: UK Business Counts

Presented by: Kent Analytics, Kent County Council

41.0% of life science enterprises in Kent have an annual turnover of £200,000 or more. This is slightly higher than that seen nationally (39.9%) and regionally (40.7%), however a higher proportion of Medway life science enterprises (50.0%) see £200,000 or more turnover.

17.0% of the life science enterprises in the South East region who have an annual turnover higher than £500,000 are based in either Kent or Medway.

Table 7: Life science enterprise turnover

2020	Number of Life Science enterprises				% of total Life Science enterprises			
	Kent	Medway	South East	England	Kent	Medway	South East	England
Total	1,670	240	11,585	66,745	100%	100%	100%	100%
0 to 49 (thousand)	95	5	780	4,525	5.7%	2.1%	6.7%	6.8%
50 to 99 (thousand)	455	70	3,130	18,825	27.2%	29.2%	27.0%	28.2%
100 to 199 (thousand)	425	50	2,965	16,735	25.4%	20.8%	25.6%	25.1%
200 to 499 (thousand)	250	35	1,645	9,080	15.0%	14.6%	14.2%	13.6%
500 to 999 (thousand)	145	45	1,055	6,925	8.7%	18.8%	9.1%	10.4%
1000 to 1999 (thousand)	135	15	825	5,180	8.1%	6.3%	7.1%	7.8%
2000 to 4999 (thousand)	100	10	655	3,250	6.0%	4.2%	5.7%	4.9%
5000 to 9999 (thousand)	25	5	165	825	1.5%	2.1%	1.4%	1.2%
10000 to 49999 (thousand)	15	5	225	825	0.9%	2.1%	1.9%	1.2%
50000+ (thousand)	15	5	140	575	0.9%	2.1%	1.2%	0.9%

Source: UK Business Counts

Presented by: Kent Analytics, Kent County Council

Employees in Life Science Industries

The Business Register and Employment Survey (BRES) provides us with estimates of the number of employees by industrial sector. The life science sector used in this bulletin is defined using the 2007 Standard Industrial Classification (2007SIC).

Nationally life science supplies over two million employee jobs, accounting for 8.8% of all jobs in the country.

The South East has the highest number of life science employee jobs in the country (394,000) accounting for 9.3% of all employees jobs in the region. The North East of England has the highest proportion with life science jobs accounting for better than one in ten of all jobs in the region.

The North West has seen the biggest increase in life science employee jobs in recent years. Life science jobs have increased in all regions with the exception of the East Midlands, which saw a 5.2% reduction since 2015.

Table 8: Regional life science employee jobs

	Number of employee jobs in life sciences					Percentage of employee jobs in life sciences					Change 2015-2019	
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	No.	%
	England	2,167,000	2,257,500	2,281,500	2,263,500	2,328,000	8.7%	8.9%	8.8%	8.7%	8.8%	161,000
North East	114,000	110,500	111,500	112,000	115,000	10.7%	10.7%	10.5%	10.6%	10.8%	1,000	0.9%
North West	302,000	327,500	322,000	321,500	342,000	9.5%	10.1%	9.8%	9.7%	10.1%	40,000	13.2%
South West	217,500	226,500	215,500	239,000	236,000	9.1%	9.4%	8.8%	9.7%	9.4%	18,500	8.5%
South East	373,000	366,000	383,000	376,000	394,000	9.2%	8.8%	9.3%	9.1%	9.3%	21,000	5.6%
Yorkshire and The Humber	210,000	217,500	204,500	212,000	221,000	9.0%	9.3%	8.6%	8.9%	9.2%	11,000	5.2%
East	220,500	236,500	239,000	240,000	249,000	8.4%	8.8%	8.7%	8.7%	8.9%	28,500	12.9%
West Midlands	203,500	235,500	217,500	224,500	229,000	8.3%	9.4%	8.4%	8.7%	8.8%	25,500	12.5%
East Midlands	181,500	186,000	200,500	175,500	172,000	9.0%	9.0%	9.7%	8.5%	8.2%	-9,500	-5.2%
London	345,000	351,500	388,500	363,000	371,000	7.0%	7.0%	7.6%	7.1%	7.1%	26,000	7.5%

Ranked by 2019 %

Source: BRES

Presented by: Strategic Commissioning - Analytics, Kent County Council

As at 2019 there were 52,500 employees working in life science industries in Kent, accounting for 8.4% of all employees in the county. This is slightly lower than the regional (9.3%) and national average (8.8%). Medway has a higher proportion of life science employee jobs (10.5%).

In Kent Maidstone district has the highest number of life science employee jobs, however Ashford has the highest proportion (12.1%).

Five local authorities in Kent have seen an increase in life science employee jobs since 2015. Ashford, Maidstone and Thanet all saw the biggest increase (+500 jobs each). Thanet saw the biggest percentage increase (+11.8%).

Four local authorities have seen no change in the number of life science jobs since 2015, and three have seen a reduction. The biggest reduction was in Dartford which had 1,500 fewer than in 2015, a reduction of 18.8%.

Table 9: Life science employees

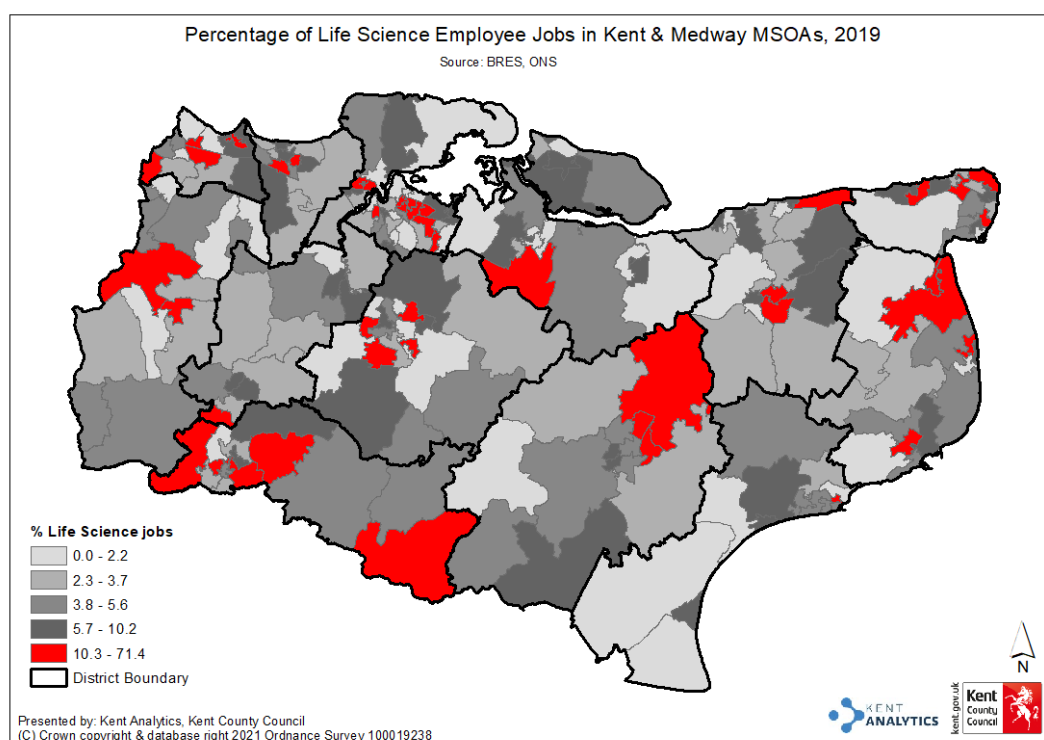
	Number of employee jobs in life science					Percentage of employee jobs in life science					Change 2015-2019	
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	No.	%
Ashford	6,500	6,000	6,500	6,500	7,000	11.9%	10.7%	11.5%	11.7%	12.1%	500	7.7%
Canterbury	6,500	6,000	6,500	6,000	6,500	10.3%	9.2%	9.6%	9.0%	9.8%	0	0.0%
Dartford	8,000	8,500	6,500	6,500	6,500	12.8%	13.6%	11.3%	10.8%	10.7%	-1,500	-18.8%
Dover	2,800	2,300	2,800	2,400	3,000	8.0%	6.8%	8.1%	7.1%	8.6%	300	9.1%
Folkestone & Hythe	1,900	1,800	2,100	1,600	1,900	5.1%	4.8%	6.0%	4.5%	4.9%	0	0.0%
Gravesham	1,600	1,400	1,800	1,400	1,800	5.6%	4.5%	5.5%	4.3%	5.3%	100	7.7%
Maidstone	7,000	8,500	8,500	8,500	7,500	9.3%	11.3%	11.3%	11.3%	9.7%	500	7.1%
Sevenoaks	2,800	2,400	2,800	2,300	2,400	5.4%	4.7%	5.1%	4.5%	4.7%	-400	-13.6%
Swale	2,500	2,800	3,300	3,000	2,500	5.1%	5.4%	6.4%	5.8%	4.9%	0	0.0%
Thanet	4,300	4,500	4,800	4,300	4,800	10.2%	11.0%	11.3%	10.2%	11.3%	500	11.8%
Tonbridge & Malling	2,800	2,300	2,500	2,500	2,500	4.8%	3.8%	4.3%	4.3%	4.1%	-300	-9.1%
Tunbridge Wells	5,500	5,500	6,000	6,000	5,500	8.9%	10.3%	11.7%	11.8%	10.6%	0	0.0%
Kent	52,000	51,000	53,500	51,000	52,500	8.4%	8.3%	8.7%	8.3%	8.4%	500	1.0%
Medway	9,500	9,500	10,000	9,500	10,000	10.8%	10.3%	11.0%	10.1%	10.5%	500	5.3%
Kent + Medway	61,500	60,500	63,500	60,500	62,500	8.7%	8.6%	9.0%	8.6%	8.7%	1,000	1.6%
South East	373,000	366,000	383,000	376,000	394,000	9.2%	8.8%	9.3%	9.1%	9.3%	21,000	5.6%
England	2,167,000	2,257,500	2,281,500	2,263,500	2,328,000	8.7%	8.9%	8.8%	8.7%	8.8%	161,000	7.4%

Source: BRES

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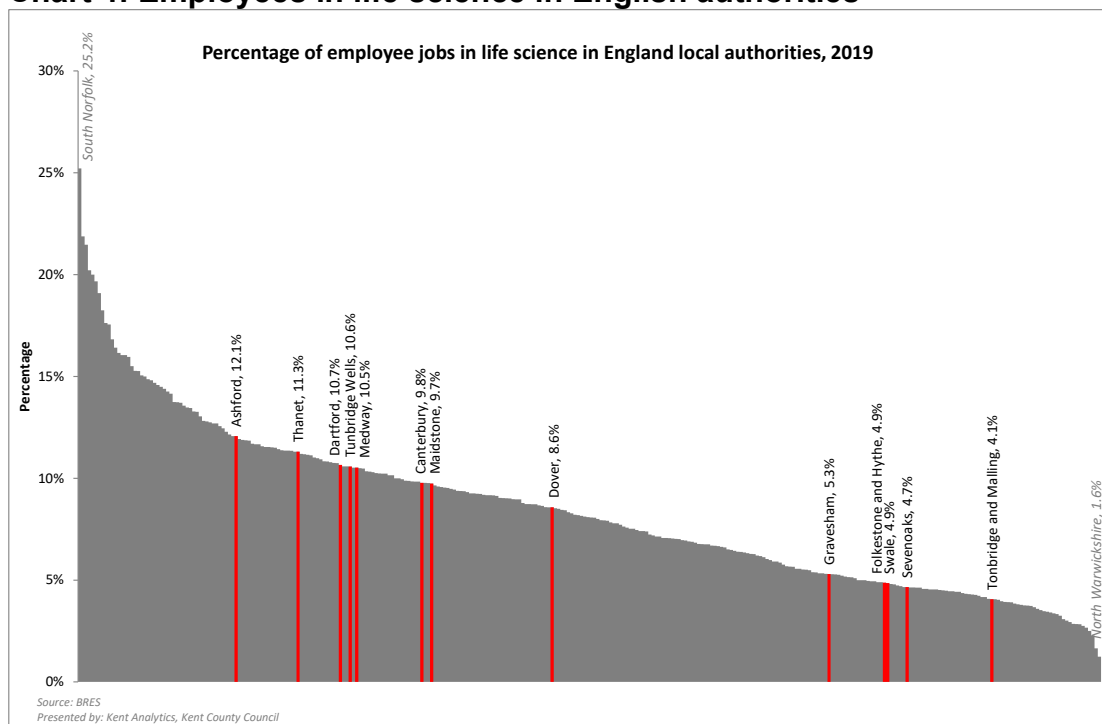
The proportion of employee jobs in life science in Kent and Medway MSOAs is shown in the following map. MSOAs are a geographic hierarchy designed to improve the reporting of small area statistics in England and Wales.

Map 2: Proportion of employee jobs in life science industries in Kent & Medway



When compared to other authorities in England, Ashford is the only Kent authority within the top 20% with the highest percentage of employee jobs in life science, these are those areas where the industry provides more than 11.4% of employee jobs. Tonbridge and Malling is the only Kent authority within the bottom 20% in the country (those with less than 4.8% employee jobs in life science).

Chart 4: Employees in life science in English authorities



The majority of life science employees work within human health activities. More specifically it is hospitals that provide the highest proportion of life science jobs.

Human health activities account for the highest proportion of life science employee jobs in all Kent local authorities. This is particularly true of local authorities where large hospitals are situated.

Dover, Sevenoaks and Swale districts have a considerably higher proportion of life science employee jobs in research and experimental development (41.7%, 27.4% and 14.0% respectively) than anywhere else in Kent. This is also much higher than the national average of 5.5%

Ashford and Swale also have a much higher proportion of life science employee jobs in medical and pharmaceutical production (8.6% and 6.4% respectively) than the Kent, South East and national averages.

Please note that due to rounding, percentages may not sum to 100%.

Table 10: Makeup of life science employees

	Number				
	Total Life science	Medical & pharmaceutical production	Human health	Medical & pharmaceutical wholesale & development	Research & experimental
2019					
Ashford	7,000	600	6,500	300	0
Canterbury	6,500	0	6,000	400	100
Dartford	6,500	0	6,000	500	100
Dover	3,000	0	1,500	200	1,300
Folkestone & Hythe	1,900	0	1,500	300	0
Gravesham	1,800	100	1,400	300	100
Maidstone	7,500	0	6,500	900	0
Sevenoaks	2,400	100	1,400	300	700
Swale	2,500	200	1,800	300	400
Thanet	4,800	0	4,500	300	0
Tonbridge & Malling	2,500	100	1,900	400	200
Tunbridge Wells	5,500	100	5,000	300	100
Kent	52,500	1,100	44,000	4,300	3,000
Medway	10,000	100	9,000	1,100	0
Kent + Medway	62,500	1,300	53,000	5,500	3,000
South East	394,000	15,500	303,000	40,500	34,500
England	2,328,000	69,500	1,962,500	166,500	129,000

Source: BRES

Presented by: Kent Analytics, Kent County Council

Table 11: Proportion of life science jobs by type

	% of total life science employees				
	Total Life science	Medical & pharmaceutical production	Human health	Medical & pharmaceutical wholesale & development	Research & experimental
2019					
Ashford	100.0%	8.6%	92.9%	4.3%	0.5%
Canterbury	100.0%	0.2%	92.3%	5.8%	0.9%
Dartford	100.0%	0.2%	92.3%	6.9%	1.7%
Dover	100.0%	0.5%	50.0%	6.7%	41.7%
Folkestone & Hythe	100.0%	0.0%	80.0%	14.7%	1.6%
Gravesham	100.0%	5.7%	78.6%	14.3%	3.4%
Maidstone	100.0%	0.5%	86.7%	11.3%	0.2%
Sevenoaks	100.0%	2.1%	57.9%	11.6%	27.4%
Swale	100.0%	6.4%	70.0%	12.0%	14.0%
Thanet	100.0%	0.5%	94.7%	5.3%	0.7%
Tonbridge & Malling	100.0%	4.0%	75.0%	14.0%	6.4%
Tunbridge Wells	100.0%	1.8%	90.9%	5.9%	1.5%
Kent	100.0%	2.1%	83.8%	8.1%	5.7%
Medway	100.0%	0.8%	90.0%	11.3%	0.4%
Kent + Medway	100.0%	2.0%	84.8%	8.8%	4.8%
South East	100.0%	3.9%	76.9%	10.3%	8.8%
England	100.0%	3.0%	84.3%	7.2%	5.5%

Source: BRES

Presented by: Kent Analytics, Kent County Council

The majority of life science enterprises are within human health so it is unsurprising that this group provides the highest number of life science employee jobs. However, where most of the enterprises are medical and

dental practices the majority of life science employee jobs are found specifically within hospitals.

The proportion of employee jobs in each of the individual life science industries in Kent reflects the national picture with a couple of exceptions. Kent has a lower proportion of life science jobs in hospital activities but a higher proportion in medical and dental practices than the national average.

Medway unitary authority has a higher proportion of life science jobs in wholesale of pharmaceutical goods and a lower proportion in research and experimental development industries.

Table 12: Detailed life science employees

2019	Kent	Medway	South East	England
Total Life science	52,500	10,000	394,000	2,328,000
Medical & pharmaceutical production	2.1%	0.8%	3.9%	3.0%
<i>Manufacture Of Basic Pharmaceutical Products And Pharmaceutical Preparations</i>	<i>0.5%</i>	<i>0.0%</i>	<i>1.0%</i>	<i>1.4%</i>
<i>Manufacture of irradiation, electromedical & electrotherapeutic equipment</i>	<i>0.1%</i>	<i>0.8%</i>	<i>0.7%</i>	<i>0.2%</i>
<i>Manufacture of medical & dental instruments & supplies</i>	<i>1.7%</i>	<i>0.2%</i>	<i>2.3%</i>	<i>1.4%</i>
Human health	83.8%	90.0%	76.9%	84.3%
<i>Hospital activities</i>	<i>43.8%</i>	<i>45.0%</i>	<i>44.7%</i>	<i>55.2%</i>
<i>Medical and dental practice activities</i>	<i>21.9%</i>	<i>16.3%</i>	<i>17.0%</i>	<i>12.6%</i>
<i>Other human health activities</i>	<i>18.1%</i>	<i>25.0%</i>	<i>15.4%</i>	<i>16.6%</i>
Medical & pharmaceutical wholesale & retail	8.1%	11.3%	10.3%	7.2%
<i>Wholesale of pharmaceutical goods</i>	<i>1.7%</i>	<i>6.0%</i>	<i>5.7%</i>	<i>2.7%</i>
<i>Wholesale of chemical products</i>	<i>0.4%</i>	<i>0.3%</i>	<i>0.5%</i>	<i>0.7%</i>
<i>Dispensing chemist in specialist store</i>	<i>4.8%</i>	<i>5.5%</i>	<i>3.3%</i>	<i>3.4%</i>
<i>Retail of medical and orthopaedic goods in specialist store</i>	<i>1.0%</i>	<i>0.1%</i>	<i>0.7%</i>	<i>0.4%</i>
Research & experimental development	5.7%	0.4%	8.8%	5.5%
<i>Research & experimental development on biotechnology</i>	<i>1.0%</i>	<i>0.0%</i>	<i>1.0%</i>	<i>0.5%</i>
<i>Other research & experimental development on natural sciences & engineering</i>	<i>4.5%</i>	<i>0.4%</i>	<i>7.7%</i>	<i>5.0%</i>

Source: BRES

Presented by: Kent Analytics, Kent County Council