



**THE DIGEST OF BIOTECH JOB
TRENDS IN MASSACHUSETTS**

**QUARTERLY LIFE SCIENCES
JOB MARKET REPORT**

(Abbreviated)

Q2 2018

ABOUT THE REPORT

About the 3-Month Report

MassBioEd produces a *Quarterly* on biopharmaceutical job trends each quarter of the year. The report compares job listings for the most current three-month period with job listings for the same three-month period of the previous year to determine underlying trends in job listings. This report, in comparison to past *Quarterly editions*, is in a more abbreviated form. MassBioEd will return to a more comprehensive format in upcoming editions.

About the MassBioEd Foundation

MassBioEd's mission is to build a sustainable life sciences workforce in the region through educational programs that inspire and propel students, engage and excite teachers, and illuminate the pathway from classroom to careers.

About The Digest of Biotech Jobs Trends in Massachusetts

The *Quarterly Report* is a part of MassBioEd's ongoing Digest of Biotech Jobs Trends in Massachusetts, which also includes *Briefs*, a *Medical Device Snapshot*, and an annual *Job Trends Forecast*. The *Briefs* present basic data and analysis on particular aspects of biopharma industry job trends.

The objective in publishing *Briefs* is to provide basic information about job listings trends, skills required of candidates, and prevalence of degree requirements for high trending occupations. The *Annual Job Trends Forecast* is intended to provide greater insight based on additional study in these areas.

Acknowledgements

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For more MassBioEd job trends analysis, visit MassBioEd.org/Job_Trends.

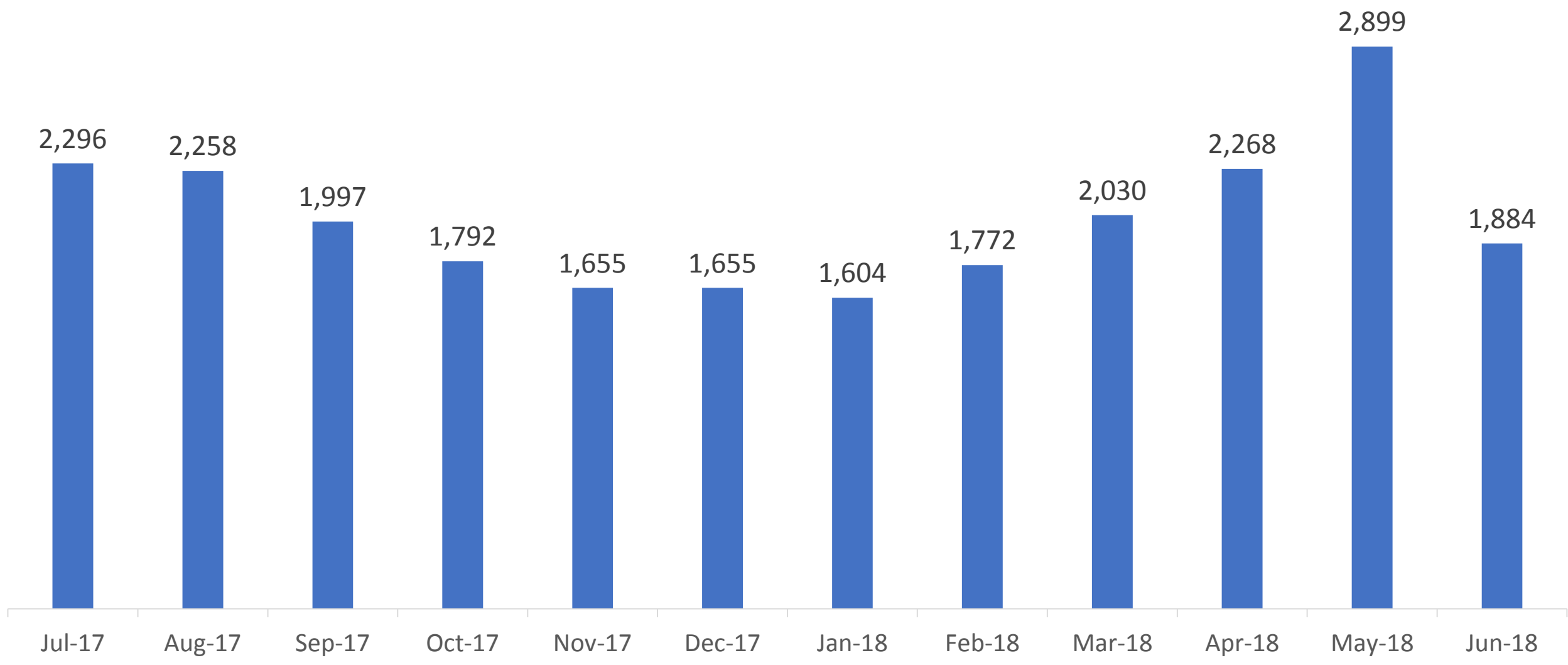
For inquiries, please contact MassBioEd at 617-674-5100.

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Life Sciences, All Listings, July 2017-June 2018

Monthly Job Listings, July 2017-June 2018



Job Listings, Quarterly Comparisons

Q1 2018	Q2 2018
5,406	7,050

+30%

Q1 2017	Q1 2018
6,808	5,406

-33%

Q2 2017	Q2 2018
6877	7,050

+2.5%

May 2018 listings were the most in a month since March 2016.

Leading Life Science Openings, Q2 2018

Top Occupations, by job listings	Q2 2018	Δ from Trend
Medical Scientist	642	5%
Researcher / Research Associate	421	43%
Biological Technician	220	213%
Clinical Research Coordinator / Manager	196	112%
Quality Control Analyst	159	34%
Laboratory Technician	143	85%
Biologist	134	-8%
Chemist	127	-34%
Healthcare Administrator	118	-4%
Operations Manager / Supervisor	101	126%
Biostatistician	94	9%
Compliance Manager	87	18%
Program Manager	84	-5%
Technical Writer	76	19%
Medical Director	71	-20%
Business Development / Sales Manager	70	-38%
Project Manager	70	-26%
Office / Administrative Assistant	67	-41%
Chemical Technician	63	112%
Software Developer / Engineer	54	-35%
Laboratory Technologist	47	-11%
Natural Science Research Manager	45	-11%
Accountant	44	-3%
Marketing Manager	44	-46%
Medical Assistant	43	43%
Account Manager / Representative	39	27%
Business / Management Analyst	39	-21%
Sales Representative	39	-63%
Administrative Manager	38	-79%
Executive Assistant	36	-19%

Listings for STEM and Non-STEM openings in the life sciences industry in Massachusetts increased 2.5% year-over-year in Q2 2018.

At left, many of the top occupations by listings in Q2 were STEM openings, which accounted for 55% of all listings in the quarter. They were measured against their preceding 12-month trend.

Green – Growing Demand

Rust – Diminishing Demand

If you are from Industry, **join our Skills Advisory Group!** MassBioEd depends on input from industry experts in our Skills Advisory Group to interpret workforce data and provide guidance on skills needed for jobs in the industry.

If you are from Higher Education, **join our Higher Education Steering Council!** MassBioEd requires feedback from our educational and training partners so that the reports we produce best reflect the information most vital to the alignment of their curricula and learning outcomes with workforce needs.

For more information, please contact MassBioEd at **617.674.5100**.

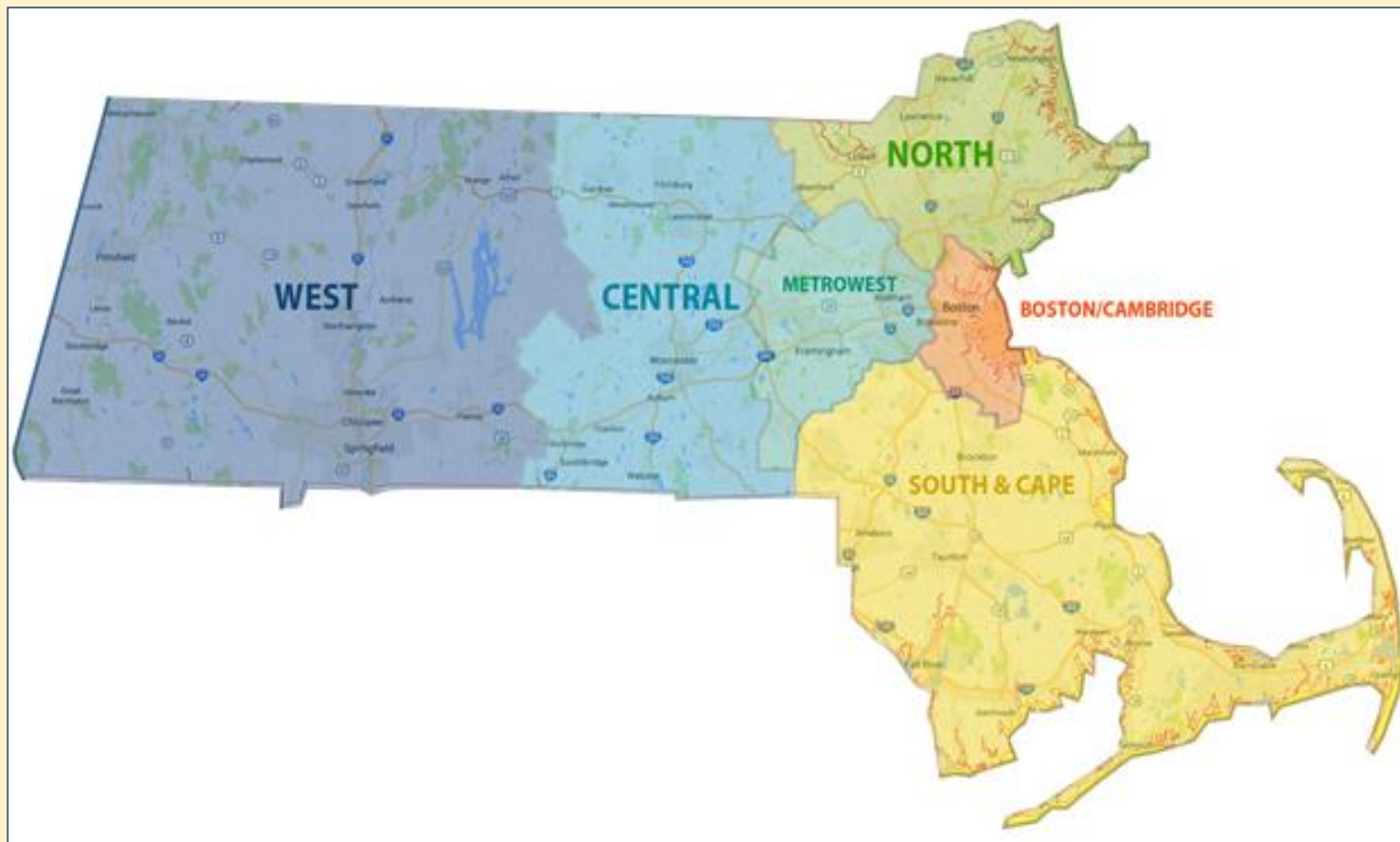
Top 25 Employers By STEM Listings, January-June 2018 (6 Months)

Rank	Employer	Listings
1	Partners Healthcare	649
2	Takeda Pharmaceuticals	571
3	Sanofi	564
4	Massachusetts General Hospital	512
5	Shire	423
6	Vertex Pharmaceuticals	340
7	Dana Farber Cancer Institute	267
8	Alkermes Incorporated	264
9	Pfizer	248
10	Alexion Pharmaceuticals	218
11	Biogen	215
12	Moderna Therapeutics	172
13	Harvard University	152
14	Bristol-Myers Squibb	135
15	Charles River Laboratories	125
16	Novartis	125
17	Boston University	119
18	bluebird bio	115
19	Merck & Company	112
20	Amgen	101
21	Broad Institute	99
22	Beth Israel Deaconess	95
23	AbbVie	94
24	SAGE Therapeutics	93
25	Merck KGaA	84

Top 26-50 Employers By STEM Listings, January-June 2018 (6 Months)

Rank	Employer	Listings
26	Boston Children's Hospital	77
27	Thermo Fisher Scientific	76
28	Astrazeneca	70
29	Sarepta Therapeutics	68
30	WaVe Life Sciences	65
31	Johnson & Johnson	64
32	UMass Medical School	61
33	MIT	58
34	Celgene Corporation	54
35	Tufts Medical Center	52
36	Ironwood Pharmaceuticals	51
37	Lahey Clinic	51
38	ENANTA Pharmaceuticals	49
39	Alnylam Pharmaceuticals	48
40	Agenus	45
41	Ginkgo BioWorks	45
42	Waters Corporation	41
43	Danaher Corporation	40
44	EMD Serono	38
45	Baystate Health	37
46	PerkinElmer	37
47	Quest Diagnostics	37
48	Parexel	36
49	MilliporeSigma	35
50	Mclean Hospital	32

Top Employers By STEM Listings, Q1-Q2 (6 months) 2018



METROWEST

Employer	Listings
Shire	406
Alkermes	330
Sanofi	127
Astrazeneca	50
Cardinal Health	44
Biogen	20
Kala Pharmaceuticals	17
Merck KGaA	15
Astellas Pharma	14
Tetraphase Pharmaceuticals	12
Enanta Pharmaceuticals	11
Johnson & Johnson	8
United Therapeutics Corporation	6
Bristol-Myers Squibb	4
Karyopharm	4
Pharmaceutical Strategies	4
Pfizer	3
Clinical Dynamix	4
Newagesys Incorporated	3
Newgig	2

CENTRAL

Employer	Listings
Bristol-Myers Squibb	107
AbbVie	70
Charles River Laboratories	25
Danaher Corporation	13
Sanofi Aventis	13
University of Mass Medical School	11
Charles River Company	6
University of Mass Memorial	5
Pfizer	5
Laboratory Corporation of America	4
University of Massachusetts	4
IDEXX Laboratories, Inc.	3
Worcester Polytechnic Institute	3
Alexion Pharmaceuticals	3
Fountain Group	2
Tufts University	2
Heywood Hospital	2
Newagesys Incorporated	2
Novartis	2
Regeneron	2

Top Employers By STEM Listings, Q1-Q2 (6 months) 2018

Boston/Cambridge

Employer	Listings
Partners Healthcare	611
Takeda Pharmaceuticals	518
Sanofi	517
Massachusetts General Hospital	504
Vertex Pharmaceuticals	450
Dana Farber Cancer Institute	263
Alexion Pharmaceuticals	248
Biogen	234
Pfizer	161
Novartis	153
Harvard University	151
Shire	145
Moderna Therapeutics	139
Merck & Company	124
Boston University	119
bluebird bio	115
Amgen	114
Broad Institute	99
SAGE Therapeutics	93
Beth Israel Deaconess	76
Boston Children's Hospital	75
Johnson & Johnson	69
MIT	57
Sarepta Therapeutics	56
Ironwood Pharmaceuticals	55
Celgene Corporation	54
Alnylam Pharmaceuticals	46
WaVe Life Sciences	46
Ginkgo BioWorks	45
Thermo Fisher Scientific Inc	34
Blueprint Medicines	31
Intellia Therapeutics	28
Tufts University	28
Pharmaceutical Product Development	27
Tufts Medical Center	26
AbbVie	26
Seres Therapeutics	24
Bristol-Myers Squibb	24
Akcea Therapeutics	22
Agios Pharmaceuticals	22

Northeast

Employer	Listings
Pfizer	70
Lahey Clinic	49
Charles River Laboratories	46
EMD Serono	31
MilliporeSigma	22
Lantheus Medical Imaging	20
Integrated Project Services	15
Flexion Therapeutics	14
Abbott Laboratories	12
Sarepta Therapeutics	12
Amgen	11
Thermo Fisher Scientific	11
Cambridge Isotope Laboratories	9
AMRI	8
Cardinal Health	7
Ultragenyx Pharmaceutical	6
Parexel	6
UMass Lowell	6
3 Key Consulting	5
Abiomed Incorporated	5

South & Cape

Employer	Listings
EMD Serono	23
Johnson & Johnson	20
Cardinal Health	18
Pfizer	5
Upsher Smith Laboratories	5
Corbus Pharmaceuticals	4
Collegium Pharmaceuticals	2

West

Employer	Listings
Baystate Health	36
Cardinal Health	20
UMass Amherst	19
Johnson & Johnson	4

APPENDIX

MassBioEd utilizes Burning Glass Labor Insight for the bulk of its real-time online job listing data. Per the description on Burning Glass' website, their Labor Insight software "collects millions of online job postings [everyday] from close to 40,000 sources and applies patented technology to mine and code detailed data from each posting, describing the specific skills, education, experience, and work activities required for the job – going well beyond the occupation and industry codes offered in other sources."

All job listings data is sourced from Burning Glass Labor Insight, unless otherwise noted.