Career Outcomes of Life Science PhD Graduates 2003-2023

Sector Upon Graduation (N=4,477)

Coalition for Next Generation Life Sciences

	Academia		For-Profit		Government		Nonprofit		Not found	
	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	49	44%	21	19%	15	13%	5	4%	22	20%
Biochemistry, Cellular and Molecular Biology	208	48%	99	23%	31	7%	34	8%	61	14%
Biological Chemistry	30	42%	10	14%	5	7%	9	13%	17	24%
Biology	139	41%	88	26%	30	9%	26	8%	58	17%
Biomedical Engineering	183	40%	165	36%	32	7%	25	5%	52	11%
Biophysics	52	53%	22	22%	8	8%	5	5%	12	12%
Biophysics and Biophysical Chemistry	6	55%	4	36%	0	0%	0	0%	1	9%
Biostatistics	89	60%	40	27%	6	4%	0	0%	13	9%
Cellular and Molecular Medicine	190	52%	86	23%	18	5%	31	8%	42	11%
Cellular and Molecular Physiology	28	62%	7	16%	0	0%	3	7%	7	16%
Chemical and Biomolecular Engineering	62	35%	75	42%	11	6%	11	6%	19	11%
Chemical Biology	18	42%	13	30%	5	12%	2	5%	5	12%
Chemical Engineering	4	40%	3	30%	1	10%	0	0%	2	20%
Chemistry	142	43%	104	31%	34	10%	12	4%	40	12%
Clinical Investigation	96	74%	5	4%	3	2%	6	5%	20	15%
Environmental Health and Engineering	23	50%	10	22%	8	17%	2	4%	3	7%
Epidemiology	229	53%	65	15%	49	11%	24	6%	64	15%
Functional Anatomy and Evolution	26	74%	1	3%	1	3%	0	0%	7	20%
Geography and Environmental Engineering	35	31%	30	27%	10	9%	3	3%	35	31%
Human Genetics	35	49%	18	25%	5	7%	7	10%	6	8%
Human Genetics and Molecular Biology	54	41%	25	19%	13	10%	11	8%	30	23%
Immunology	58	52%	17	15%	9	8%	13	12%	14	13%
Molecular Microbiology and Immunology	59	39%	31	21%	28	19%	13	9%	20	13%
Neuroscience	133	54%	51	21%	7	3%	22	9%	32	13%
Pathobiology	53	46%	32	28%	10	9%	7	6%	14	12%
Pharmacology and Molecular Sciences	71	41%	46	27%	19	11%	14	8%	23	13%
Program in Molecular Biophysics	33	44%	17	23%	10	13%	8	11%	7	9%

Sector Five Years After Graduation (N=3,592)

	Academia		For-Profit		Government		Nonprofit		Not found	
	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	29	31%	23	25%	10	11%	7	8%	24	26%
Biochemistry, Cellular and Molecular Biology	121	33%	99	27%	30	8%	24	6%	96	26%
Biological Chemistry	15	24%	9	15%	4	6%	9	15%	25	40%
Biology	94	35%	74	28%	21	8%	18	7%	61	23%
Biomedical Engineering	100	29%	121	35%	28	8%	20	6%	74	22%
Biophysics	35	45%	12	16%	8	10%	7	9%	15	19%
Biophysics and Biophysical Chemistry	2	40%	3	60%	0	0%	0	0%	0	0%
Biostatistics	51	45%	34	30%	7	6%	2	2%	20	18%
Cellular and Molecular Medicine	109	38%	70	24%	14	5%	23	8%	71	25%
Cellular and Molecular Physiology	16	46%	4	11%	0	0%	2	6%	13	37%
Chemical and Biomolecular Engineering	36	21%	88	52%	8	5%	8	5%	29	17%
Chemical Biology	7	26%	12	44%	4	15%	1	4%	3	11%
Chemical Engineering	4	40%	3	30%	1	10%	0	0%	2	20%
Chemistry	71	28%	93	36%	32	12%	8	3%	53	21%
Clinical Investigation	50	50%	5	5%	0	0%	5	5%	41	41%
Environmental Health and Engineering	6	35%	5	29%	1	6%	2	12%	3	18%
Epidemiology	167	45%	44	12%	34	9%	13	4%	110	30%
Functional Anatomy and Evolution	18	64%	0	0%	0	0%	1	4%	9	32%
Geography and Environmental Engineering	31	28%	21	19%	8	7%	2	2%	47	43%
Human Genetics	8	40%	5	25%	2	10%	1	5%	4	20%
Human Genetics and Molecular Biology	48	36%	21	16%	11	8%	12	9%	41	31%
Immunology	36	41%	15	17%	8	9%	7	8%	21	24%
Molecular Microbiology and Immunology	42	31%	35	26%	19	14%	12	9%	26	19%
Neuroscience	75	39%	35	18%	8	4%	13	7%	63	32%
Pathobiology	30	36%	22	27%	5	6%	6	7%	20	24%
Pharmacology and Molecular Sciences	40	28%	48	34%	16	11%	7	5%	30	21%
Program in Molecular Biophysics	17	28%	23	38%	7	12%	3	5%	10	17%

Sector Ten Years After Graduation (N=2,407)

	Academia		For-Profit		Government		Nonprofit		Not found	
	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	18	27%	18	27%	8	12%	3	4%	20	30%
Biochemistry, Cellular and Molecular Biology	93	35%	78	30%	21	8%	19	7%	52	20%
Biological Chemistry	14	29%	9	19%	4	8%	6	13%	15	31%
Biology	59	33%	63	35%	10	6%	5	3%	41	23%
Biomedical Engineering	59	30%	85	43%	11	6%	10	5%	31	16%
Biophysics	26	45%	16	28%	6	10%	0	0%	10	17%
Biophysics and Biophysical Chemistry	0	0%	1	100%	0	0%	0	0%	0	0%
Biostatistics	38	56%	14	21%	2	3%	0	0%	14	21%
Cellular and Molecular Medicine	59	32%	54	30%	15	8%	14	8%	40	22%
Cellular and Molecular Physiology	9	38%	7	29%	0	0%	4	17%	4	17%
Chemical and Biomolecular Engineering	22	22%	50	51%	5	5%	2	2%	19	19%
Chemical Biology	1	14%	2	29%	1	14%	0	0%	3	43%
Chemical Engineering	4	40%	2	20%	1	10%	0	0%	3	30%
Chemistry	38	21%	80	45%	17	10%	6	3%	37	21%
Clinical Investigation	39	54%	4	6%	2	3%	4	6%	23	32%
Epidemiology	131	46%	37	13%	34	12%	11	4%	71	25%
Functional Anatomy and Evolution	11	58%	0	0%	0	0%	2	11%	6	32%
Geography and Environmental Engineering	23	29%	13	17%	6	8%	2	3%	34	44%
Human Genetics and Molecular Biology	33	32%	28	27%	8	8%	6	6%	28	27%
Immunology	26	43%	12	20%	5	8%	5	8%	13	21%
Molecular Microbiology and Immunology	21	24%	30	34%	15	17%	5	6%	18	20%
Neuroscience	66	52%	21	17%	6	5%	7	6%	27	21%
Pathobiology	19	37%	16	31%	2	4%	3	6%	11	22%
Pharmacology and Molecular Sciences	27	27%	44	44%	12	12%	5	5%	13	13%
Program in Molecular Biophysics	10	23%	17	39%	4	9%	1	2%	12	27%

Sector Fifteen Years After Graduation (N=1,246)

	Academia		For-Profit		Government		Nonprofit		Not found	
	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	7	18%	12	31%	1	3%	1	3%	18	46%
Biochemistry, Cellular and Molecular Biology	31	21%	28	19%	9	6%	10	7%	72	48%
Biological Chemistry	6	22%	0	0%	2	7%	3	11%	16	59%
Biology	21	22%	15	16%	2	2%	1	1%	56	59%
Biomedical Engineering	13	15%	14	16%	7	8%	4	5%	49	56%
Biophysics	7	23%	2	7%	2	7%	0	0%	19	63%
Biostatistics	9	21%	8	19%	0	0%	0	0%	26	60%
Cellular and Molecular Medicine	16	19%	13	16%	3	4%	5	6%	46	55%
Cellular and Molecular Physiology	2	25%	0	0%	0	0%	1	13%	5	63%
Chemical and Biomolecular Engineering	4	11%	8	22%	1	3%	0	0%	23	64%
Chemical Engineering	4	40%	3	30%	1	10%	0	0%	2	20%
Chemistry	11	11%	29	30%	6	6%	3	3%	49	50%
Clinical Investigation	8	21%	1	3%	0	0%	1	3%	29	74%
Epidemiology	37	23%	11	7%	9	6%	4	2%	100	62%
Functional Anatomy and Evolution	2	20%	0	0%	0	0%	1	10%	7	70%
Geography and Environmental Engineering	7	14%	2	4%	1	2%	0	0%	39	80%
Human Genetics and Molecular Biology	11	23%	5	11%	3	6%	1	2%	27	57%
Immunology	7	23%	3	10%	1	3%	1	3%	18	60%
Molecular Microbiology and Immunology	5	10%	9	18%	6	12%	1	2%	30	59%
Neuroscience	15	25%	4	7%	0	0%	5	8%	36	60%
Pathobiology	5	28%	4	22%	0	0%	0	0%	9	50%
Pharmacology and Molecular Sciences	9	18%	11	22%	2	4%	3	6%	26	51%
Program in Molecular Biophysics	5	21%	7	29%	1	4%	0	0%	11	46%

Job Type Upon Graduation (N=4,477)

	Further training or education		Primarily research		Primarily teaching		Science-related		Not related to science		Not found	
	N	%	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	47	42%	21	19%	5	4%	11	10%	6	5%	22	20%
Biochemistry, Cellular and Molecular Biology	192	44%	88	20%	19	4%	34	8%	38	9%	62	14%
Biological Chemistry	23	32%	20	28%	2	3%	4	6%	3	4%	19	27%
Biology	138	40%	67	20%	15	4%	23	7%	44	13%	54	16%
Biomedical Engineering	127	28%	130	28%	26	6%	65	14%	56	12%	53	12%
Biophysics	50	51%	17	17%	4	4%	7	7%	8	8%	13	13%
Biophysics and Biophysical Chemistry	4	36%	2	18%	1	9%	1	9%	2	18%	1	9%
Biostatistics	34	23%	52	36%	30	20%	11	7%	7	5%	14	9%
Cellular and Molecular Medicine	129	35%	81	22%	28	8%	56	15%	25	7%	48	13%
Cellular and Molecular Physiology	20	44%	6	13%	2	4%	6	13%	3	7%	8	18%
Chemical and Biomolecular Engineering	57	32%	71	40%	4	2%	12	7%	19	11%	15	8%
Chemical Biology	18	42%	13	30%	0	0%	2	5%	3	7%	7	16%
Chemical Engineering	4	40%	0	0%	1	10%	1	10%	2	20%	2	20%
Chemistry	128	39%	84	25%	18	5%	26	8%	28	8%	48	14%
Clinical Investigation	1	1%	36	28%	47	36%	18	14%	7	5%	21	16%
Environmental Health and Engineering	18	39%	11	24%	3	7%	7	15%	3	7%	4	9%
Epidemiology	75	17%	150	35%	63	15%	46	11%	22	5%	75	17%
Functional Anatomy and Evolution	6	17%	9	26%	12	34%	0	0%	1	3%	7	20%
Geography and Environmental Engineering	12	11%	24	21%	13	12%	14	12%	14	12%	36	32%
Human Genetics	28	39%	21	30%	2	3%	8	11%	5	7%	7	10%
Human Genetics and Molecular Biology	43	32%	26	20%	9	7%	11	8%	14	11%	30	23%
Immunology	48	43%	23	21%	7	6%	11	10%	5	5%	17	15%
Molecular Microbiology and Immunology	64	42%	28	19%	6	4%	17	11%	11	7%	25	17%
Neuroscience	88	36%	45	18%	14	6%	46	19%	18	7%	34	14%
Pathobiology	45	39%	28	24%	8	7%	14	12%	5	4%	16	14%
Pharmacology and Molecular Sciences	66	38%	43	25%	12	7%	14	8%	14	8%	24	14%
Program in Molecular Biophysics	35	47%	18	24%	2	3%	4	5%	9	12%	7	9%

Job Type Five Years After Graduation (N=3,592)

	Further training or education		Primarily research		Primarily teaching		Science-related		Not related to science		Not found	
	N	%	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	23	25%	18	19%	6	6%	11	12%	10	11%	25	27%
Biochemistry, Cellular and Molecular Biology	86	23%	91	25%	22	6%	41	11%	31	8%	99	27%
Biological Chemistry	14	23%	11	18%	3	5%	5	8%	3	5%	26	42%
Biology	64	24%	65	24%	19	7%	20	7%	42	16%	58	22%
Biomedical Engineering	49	14%	98	29%	26	8%	46	13%	52	15%	72	21%
Biophysics	21	27%	20	26%	2	3%	7	9%	9	12%	18	23%
Biophysics and Biophysical Chemistry	1	20%	1	20%	1	20%	0	0%	1	20%	1	20%
Biostatistics	2	2%	52	46%	23	20%	11	10%	6	5%	20	18%
Cellular and Molecular Medicine	55	19%	57	20%	29	10%	47	16%	26	9%	73	25%
Cellular and Molecular Physiology	12	34%	4	11%	2	6%	2	6%	2	6%	13	37%
Chemical and Biomolecular Engineering	20	12%	70	41%	14	8%	19	11%	18	11%	28	17%
Chemical Biology	6	22%	12	44%	0	0%	1	4%	2	7%	6	22%
Chemical Engineering	2	20%	0	0%	2	20%	2	20%	2	20%	2	20%
Chemistry	36	14%	94	37%	21	8%	26	10%	25	10%	55	21%
Clinical Investigation	0	0%	18	18%	26	26%	11	11%	4	4%	42	42%
Environmental Health and Engineering	2	12%	3	18%	2	12%	2	12%	1	6%	7	41%
Epidemiology	23	6%	118	32%	67	18%	32	9%	20	5%	108	29%
Functional Anatomy and Evolution	2	7%	9	32%	8	29%	0	0%	0	0%	9	32%
Geography and Environmental Engineering	6	6%	25	23%	13	12%	12	11%	9	8%	44	40%
Human Genetics	5	25%	5	25%	1	5%	2	10%	1	5%	6	30%
Human Genetics and Molecular Biology	25	19%	32	24%	17	13%	11	8%	7	5%	41	31%
Immunology	19	22%	25	29%	12	14%	8	9%	1	1%	22	25%
Molecular Microbiology and Immunology	21	16%	40	30%	11	8%	24	18%	10	7%	28	21%
Neuroscience	46	24%	29	15%	16	8%	23	12%	15	8%	65	34%
Pathobiology	16	19%	23	28%	8	10%	13	16%	4	5%	19	23%
Pharmacology and Molecular Sciences	22	16%	39	28%	11	8%	22	16%	17	12%	30	21%
Program in Molecular Biophysics	11	18%	19	32%	4	7%	7	12%	10	17%	9	15%

Job Type Ten Years After Graduation (N=2,407)

	Further training or education		Primarily research		Primarily teaching		Science-related		Not related to science		Not found	
	N	%	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	6	9%	15	22%	8	12%	10	15%	8	12%	20	30%
Biochemistry, Cellular and Molecular Biology	21	8%	85	32%	28	11%	37	14%	32	12%	60	23%
Biological Chemistry	4	8%	16	33%	7	15%	2	4%	3	6%	16	33%
Biology	9	5%	52	29%	25	14%	20	11%	30	17%	42	24%
Biomedical Engineering	6	3%	57	29%	27	14%	35	18%	36	18%	35	18%
Biophysics	8	14%	14	24%	7	12%	9	16%	6	10%	14	24%
Biophysics and Biophysical Chemistry	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%
Biostatistics	0	0%	28	41%	18	26%	5	7%	2	3%	15	22%
Cellular and Molecular Medicine	5	3%	40	22%	30	16%	36	20%	21	12%	50	27%
Cellular and Molecular Physiology	1	4%	6	25%	5	21%	6	25%	1	4%	5	21%
Chemical and Biomolecular Engineering	5	5%	28	29%	10	10%	14	14%	20	20%	21	21%
Chemical Biology	1	14%	2	29%	0	0%	0	0%	1	14%	3	43%
Chemical Engineering	1	10%	0	0%	3	30%	1	10%	3	30%	2	20%
Chemistry	4	2%	54	30%	19	11%	19	11%	40	22%	42	24%
Clinical Investigation	0	0%	12	17%	24	33%	8	11%	4	6%	24	33%
Epidemiology	5	2%	93	33%	61	21%	33	12%	17	6%	75	26%
Functional Anatomy and Evolution	0	0%	6	32%	7	37%	1	5%	1	5%	4	21%
Geography and Environmental Engineering	2	3%	15	19%	11	14%	6	8%	8	10%	36	46%
Human Genetics and Molecular Biology	6	6%	31	30%	12	12%	10	10%	14	14%	30	29%
Immunology	5	8%	19	31%	10	16%	6	10%	6	10%	15	25%
Molecular Microbiology and Immunology	3	3%	27	30%	7	8%	20	22%	10	11%	22	25%
Neuroscience	8	6%	35	28%	27	21%	14	11%	17	13%	26	20%
Pathobiology	5	10%	16	31%	7	14%	8	16%	3	6%	12	24%
Pharmacology and Molecular Sciences	5	5%	27	27%	15	15%	21	21%	16	16%	17	17%
Program in Molecular Biophysics	1	2%	12	27%	4	9%	5	11%	10	23%	12	27%

Job Type Fifteen Years After Graduation (N=1246)

	Further training or education		Primarily research		Primarily teaching		Science-related		Not related to science		Not found	
	N	%	N	%	N	%	N	%	N	%	N	%
Biochemistry and Molecular Biology	3	8%	5	13%	4	10%	4	10%	5	13%	18	46%
Biochemistry, Cellular and Molecular Biology	4	3%	24	16%	18	12%	18	12%	17	11%	69	46%
Biological Chemistry	1	4%	5	19%	5	19%	0	0%	0	0%	16	59%
Biology	1	1%	11	12%	15	16%	3	3%	12	13%	53	56%
Biomedical Engineering	1	1%	9	10%	11	13%	5	6%	13	15%	48	55%
Biophysics	1	3%	3	10%	3	10%	1	3%	2	7%	20	67%
Biostatistics	0	0%	10	23%	4	9%	3	7%	0	0%	26	60%
Cellular and Molecular Medicine	3	4%	7	8%	12	14%	6	7%	10	12%	45	54%
Cellular and Molecular Physiology	0	0%	1	13%	2	25%	0	0%	0	0%	5	63%
Chemical and Biomolecular Engineering	0	0%	4	11%	4	11%	1	3%	5	14%	22	61%
Chemical Engineering	0	0%	0	0%	3	30%	3	30%	2	20%	2	20%
Chemistry	2	2%	16	16%	3	3%	7	7%	22	22%	48	49%
Clinical Investigation	0	0%	1	3%	4	10%	4	10%	1	3%	29	74%
Epidemiology	1	1%	16	10%	26	16%	14	9%	7	4%	97	60%
Functional Anatomy and Evolution	0	0%	1	10%	3	30%	0	0%	0	0%	6	60%
Geography and Environmental Engineering	1	2%	3	6%	3	6%	2	4%	1	2%	39	80%
Human Genetics and Molecular Biology	0	0%	7	15%	9	19%	1	2%	3	6%	27	57%
Immunology	2	7%	3	10%	4	13%	1	3%	2	7%	18	60%
Molecular Microbiology and Immunology	0	0%	8	16%	3	6%	4	8%	8	16%	28	55%
Neuroscience	1	2%	4	7%	9	15%	4	7%	6	10%	36	60%
Pathobiology	0	0%	3	17%	2	11%	2	11%	2	11%	9	50%
Pharmacology and Molecular Sciences	3	6%	7	14%	7	14%	4	8%	3	6%	27	53%
Program in Molecular Biophysics	0	0%	4	17%	3	13%	1	4%	5	21%	11	46%