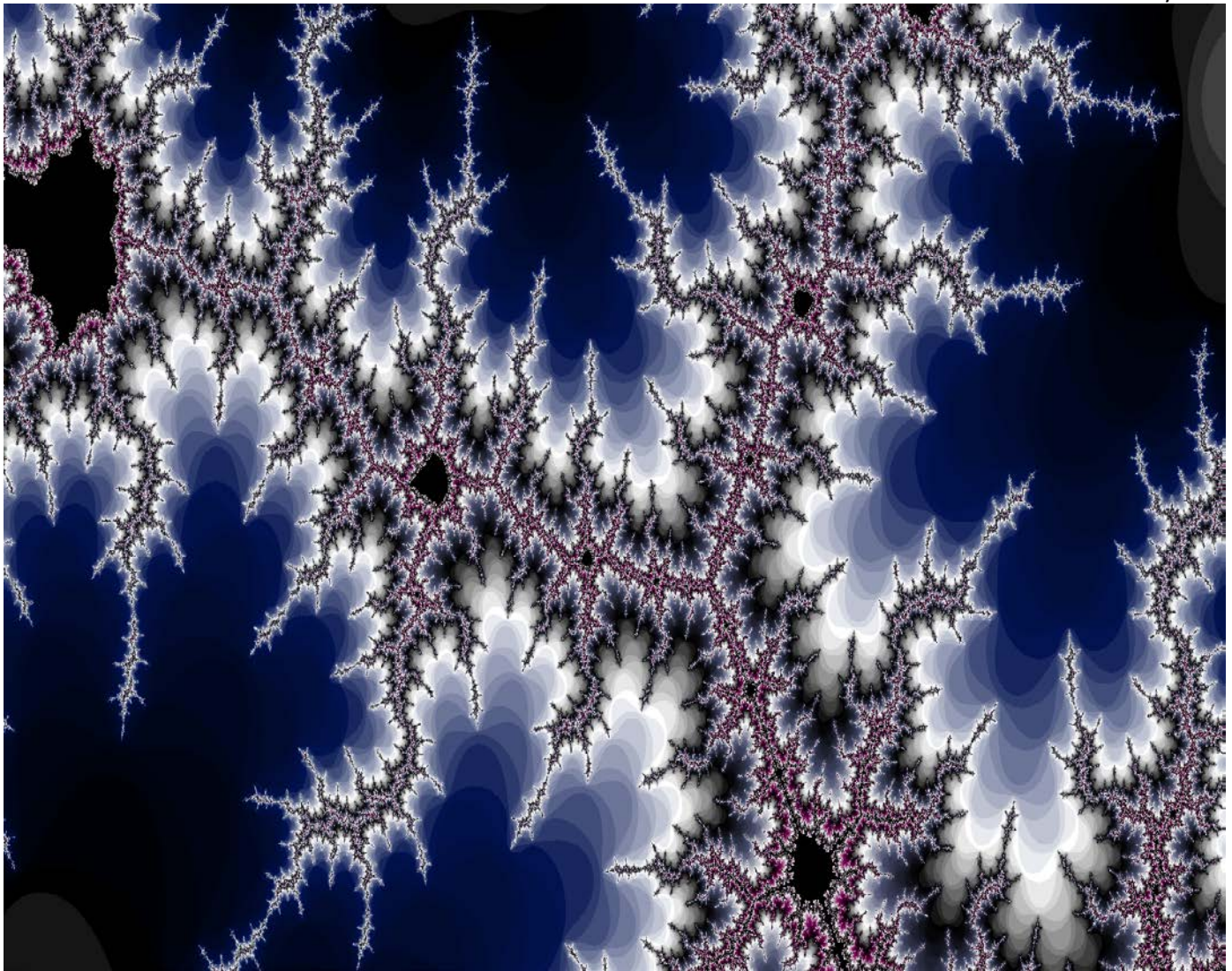


Enrollment Snapshot of Radiography, Radiation Therapy and Nuclear Medicine Technology Programs – 2017

February 2018



©2018 ASRT. All rights reserved.

Reproduction in any form is forbidden without written permission from publisher.



American Society of Radiologic Technologists

Table of Contents

Executive Summary	4
Demographic Analysis.....	4
Credit Hours, Accreditation and the State of Education	4
Enrollment Analysis	4
2017 Student Capacity.....	5
Near-term Changes.....	5
Program Outcomes.....	6
Comparing Canadian and U.S. Programs.....	6
Glossary	7
Demographics	8
Indicate your program type.....	8
What is your primary place of employment?	8
What is the terminal degree earned by the graduates in your program?	9
In what country is your program located?	9
If you chose the United States in the question above, please indicate in which region your program is located.	10
Accreditation and Credit Hours	11
What is the level of educational accreditation in your program?.....	11
What type of credit system do you use in your program?.....	11
Does your state mandate a limit on the maximum number of credits required for a degree in your program?.....	12
2017 Enrollment Analysis	13
Mean number of students entering by program and institution type.....	13
Is your program currently at full enrollment?	14
Do you plan any changes related to enrollment?	16
How viable is your program over the next few years?.....	17
Longitudinal Enrollment Trends	18
Radiography	18
Estimated total number of students enrolled in all Radiography programs:.....	19
Radiation Therapy.....	20
Estimated total number of students enrolled in all Radiation Therapy programs:.....	21
Nuclear Medicine.....	22

Estimated total number of students enrolled in all Nuclear Medicine programs:.....23

Number of ARRT-recognized programs by discipline:24

2017 Comparison of U.S. and Canadian Programs 25

 Radiography25

 Radiation Therapy.....25

 Nuclear Medicine Technology25

Reported Job Placement of Graduates 26

 What percentage of students were able to find employment in their discipline within six months after graduation?
 26

Appendix A. Survey Instruments and Invitation Letter (Please contact the ASRT for a copy.)

Appendix B. Verbatim Responses (Please contact the ASRT for a copy.)

Appendix C. Additional Accreditation and Credit Hour Questions (Please contact the ASRT for a copy.)

Executive Summary

In early October 2017, an invitation to complete an online questionnaire was sent via email to 954 radiography, radiation therapy, and nuclear medicine technology programs listed by the American Registry of Radiologic Technologists (ARRT). At the close of the survey in early December 2017, a total of 333 responses had been received, yielding an overall response rate of 34.9%.

	Return	Population	Percent Sampled	Margin of Error at the 95% Level
Radiography	259	727	35.6%	±4.9%
Radiation Therapy	37	110	33.6%	±13.2%
Nuclear Medicine	32	117	27.4%	±14.8%
Overall	333	954	34.9%	±4.3%

This report summarizes findings regarding radiologic sciences enrollment in ARRT-recognized programs based on the responses from program directors.

Demographic Analysis

The largest group of respondents (39.9%) work at a community college or 2-year institution, 26.4% work at a university or 4-year institution, 18.3% work at a medical center, 9.3% work at a technical college, 2.7% work at a for-profit school, and the remaining 3.3% work at another type of institution.

Most programs that responded to the survey are in radiography (77.8%); of the remaining respondents, 11.1% were radiation therapy, 9.6% were nuclear medicine, and 1.5% were other types of imaging programs.

The terminal degree granted by programs responding to the survey was most likely to be an associate degree (61.3% of respondents); 22.5% grant a bachelor's degree, and the remaining 16.2% grant another type of terminal degree.

The vast majority of programs surveyed (97.6%) are located in the United States; 2.1% are in Canada, and 0.3% are in Australia.

The US regions with the highest response rates were East North Central and South Atlantic, with a response rate of 23.4% and 19.4%, respectively. The lowest response rates were in the Mountain region and New England at 6.8% and 6.5%, respectively.

Credit Hours, Accreditation and the State of Education

Respondents were asked several questions pertaining to the number of credits needed to graduate from their program and their institution's accreditation.

Asked about the level of institutional accreditation in their program, 69.9% of respondents said they have both programmatic and institutional accreditation, 19.6% said they had only programmatic accreditation, 6.6% said they had only institutional accreditation, and the remaining 3.9% had another accreditation arrangement.

The majority of programs responding to the survey (84.8%) use semester hours for their credit system; 6.1% use quarter hours, and the remaining 9.1% use another system.

Asked whether their state mandates a limit on the maximum number of credit hours allowable for a degree in their program, 40.4% of respondents said yes, 32.2% said no, and the remaining 27.4% were unsure.

Enrollment Analysis

Based on the survey response, radiography programs enrolled an average of 21.7 students in 2017. This represents an increase of 0.6 students per program

from 2016. This produces an overall estimate of 15,769 students entering ARRT-certified radiography programs in 2017, up from 15,537 in 2016.

On average, radiation therapy programs enrolled 10.5 students in 2017. This represents a slight decline of 0.3 students per program from 2016, when on average, 10.8 students enrolled in each radiation therapy program. This produces an overall estimate of 1,151 students enrolling in ARRT-certified radiation therapy programs in 2017, down from 1,185 in 2016.

On average, nuclear medicine programs enrolled 10.9 students in 2017. This represents a decline of 0.5 students per program from 2016, when on average, 11.4 students enrolled in each nuclear medicine program. Overall, this produces an estimate of 1,273 students enrolling in nuclear medicine programs in 2017, down from 1,368 in 2016.

2017 Student Capacity

Asked whether their program is currently at full enrollment, 52.5% of radiography programs, 56.8% of radiation therapy programs, and 28.1% of nuclear medicine programs said that they are at capacity. There were statistically significant differences between groups.

Programs not at full enrollment were asked how many additional students their program could accommodate. On average, radiography programs said they could accommodate an additional 8.3 students, radiation therapy programs said they could accommodate an additional 5.2 students, and nuclear medicine programs said they could accommodate an additional 6.7 students.

This produces an estimate of 2,849 additional students across all radiography programs, 247 additional students across all radiation therapy programs, and 559 additional students in nuclear medicine.

The mean number of qualified students turned away by radiography programs was 30.8; radiation therapy programs turned away an average of 16.0 qualified

students, and nuclear medicine programs turned away an average of 2.5 qualified students.

This produces an estimate of 11,756 qualified students turned away in radiography, 998 turned away by therapy programs, and 82 turned down by nuclear medicine programs.

Near-term Changes

Most of the programs surveyed plan to maintain their current levels of enrollment; 82.0% of programs across disciplines plan to keep their enrollment at the same level; 15.9% of programs plan to increase enrollment, and the remaining 2.1% plan to decrease their enrollment.

In radiography, 82.9% of programs plan to maintain current enrollment; 15.1% plan to increase their enrollment, and the remaining 1.9% of programs plan to decrease their enrollment.

In radiation therapy, 83.8% of programs plan to keep their current enrollment; 13.5% are planning an increase, and 2.7% plan to decrease enrollment.

In nuclear medicine, 71.9% of programs plan to leave their enrollment unchanged, 25.0% are planning an increase, and 3.1% plan to decrease their enrollment.

The majority of programs across disciplines (80.5%) will definitely continue to operate; 17.4% will most likely continue operations, 1.2% will likely close, and the remaining 0.9% will definitely close. There were significant differences between groups.

In radiography, 81.5% of programs said they would definitely continue to operate; 16.6% will most likely continue operations, 1.5% will likely close, and the remaining 0.4% will definitely close.

In radiation therapy, 81.1% of programs will definitely continue to operate, and the remaining 18.9% of programs will most likely continue operations.

In nuclear medicine, 71.9% of programs will definitely continue to operate; 21.9% will likely continue to operate, and the remaining 6.2% will definitely close.

Program Outcomes

Asked about the attrition rate¹ of their program, respondents indicated that, on average:

- 18.7% of students in radiography programs failed to complete their course of study.
- 9.5% of students in radiation therapy programs failed to complete their course of study.
- 9.3% of students in nuclear medicine programs failed to finish their studies.

For those students who successfully completed the program, respondents were asked what percentage of graduates passed the credentialing exam on their first attempt:

- On average, 91.2% of radiography graduates pass the exam on their first attempt.
- On average, 91.6% of radiation therapy graduates pass the exam on their first attempt.
- On average, 91.9% of nuclear medicine graduates pass the exam on their first attempt.

Asked whether graduates of their program were able to find employment in their primary discipline within 6 months of graduating:

Respondents said that, from the class of 2016, 95.4% of graduates from radiography programs, 92.0% from radiation therapy programs, and 89.8% of graduates of nuclear medicine programs were able to find employment in their field within 6 months.

These placement rates represent an increase of 0.1% from 95.3% the previous year in radiography, an increase of 3.3% from 88.7% the previous year in radiation therapy, and an increase of 13.5% from 76.3% the previous year in nuclear medicine.

¹ Methodological Note: In previous years, no attempt was made to determine the plausibility of responses about attrition. The last two years responses were recoded according to the following scheme: If the respondent indicated an attrition rate of 59% or lower, the response was left as is. If the respondent indicated an

Comparing Canadian and U.S. Programs

For radiography, the mean entering class size was larger in Canada than in the United States. On average, 27.3 students entered Canadian programs, compared with an average of 21.7 students entering programs in the United States. In radiation therapy, U.S. programs enrolled slightly more students than their Canadian counterparts, with 10.5 entering students in the U.S. compared with 10.3 in Canada.

None of Canada's 5 nuclear medicine programs responded to the survey this year, making any comparison impossible.

Based on the survey responses, the calculated mean entering class size, and the total number of programs, the estimated total enrollment for each discipline is:

- Radiography: 15,115 in the United States and 574 in Canada.
- Radiation therapy: 942 in the United States and 155 in Canada.

U.S. radiography programs were more likely to be at full enrollment than their Canadian counterparts: 52.5% of U.S. radiography programs were at full enrollment, compared with 33.3% of Canadian programs. In radiation therapy, 55.9% of U.S. programs and 66.7% of Canadian programs were at capacity.

attrition rate over 59%, the response was recoded as (1-x) where $x = \text{uncoded user response}$. For this reason, reported attrition means on the last two Enrollment Snapshots will be noticeably lower than they have been in previous years.

Glossary

The following statistical results are displayed using a common set of acronyms and symbols for brevity. The symbols and acronyms used are listed here for reference.

N

Number of responses.

Valid Percent

Percentage of total responses.

Mean

The arithmetic average.

Population

The total number of programs.

SD

Standard Deviation.

χ^2

Chi-squared, from Pearson's Chi-Squared to test for statistical significance.

F

F-statistic, from analysis of Variance (ANOVA) to test for statistical significance.

P

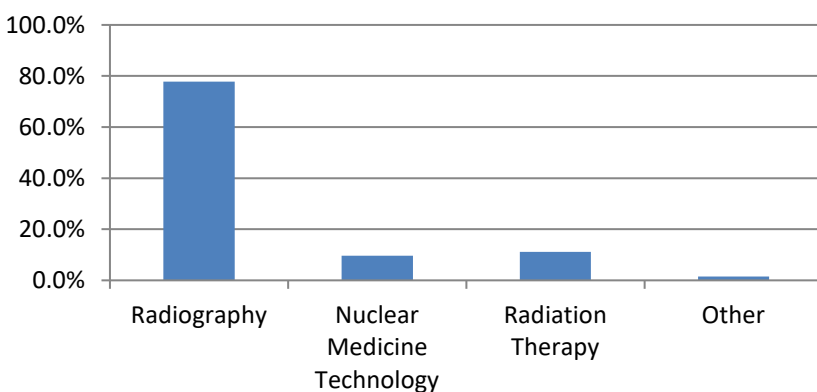
Probability, as a measure for statistical significance when $P \leq 0.05$.

Demographics

Indicate your program type.

	N	Valid Percent	Population	Sample Return as Percent of Population
Radiography	259	77.8%	727	35.6%
Nuclear Medicine Technology	32	9.6%	117	27.4%
Radiation Therapy	37	11.1%	110	33.6%
Other	5	1.5%	n/a	n/a
Total	333	100.0%	954	34.9%

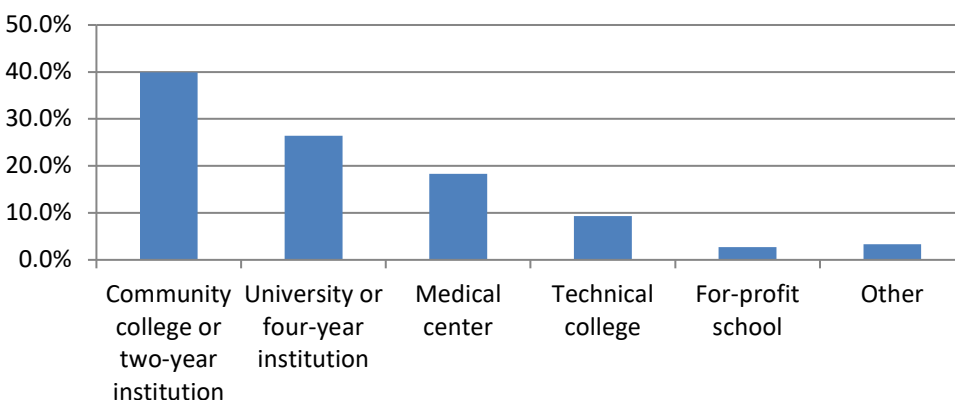
Indicate your program type.



What is your primary place of employment?

	N	Valid Percent
Community college or two-year institution	133	39.9%
University or four-year institution	88	26.4%
Medical center	61	18.3%
Technical college	31	9.3%
For-profit school	9	2.7%
Other	11	3.3%
Total	333	100.0%

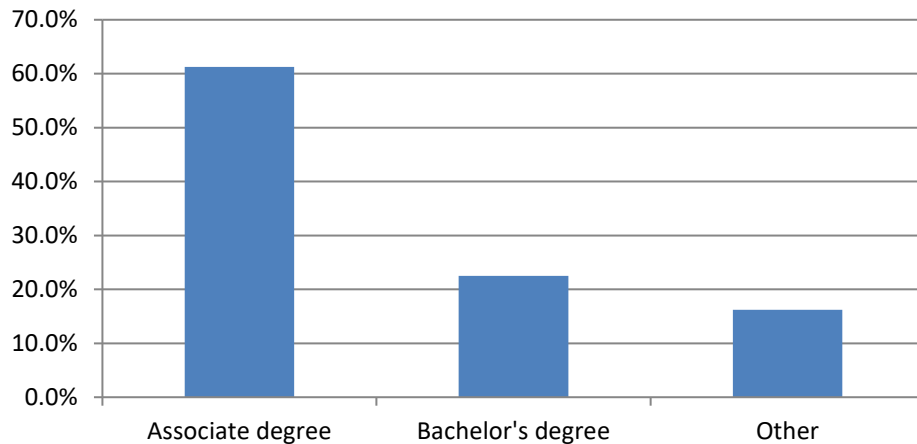
What is your primary place of employment?



What is the terminal degree earned by the graduates in your program?

	N	Valid Percent
Associate degree	204	61.3%
Bachelor's degree	75	22.5%
Other	54	16.2%
Total	333	100.0%

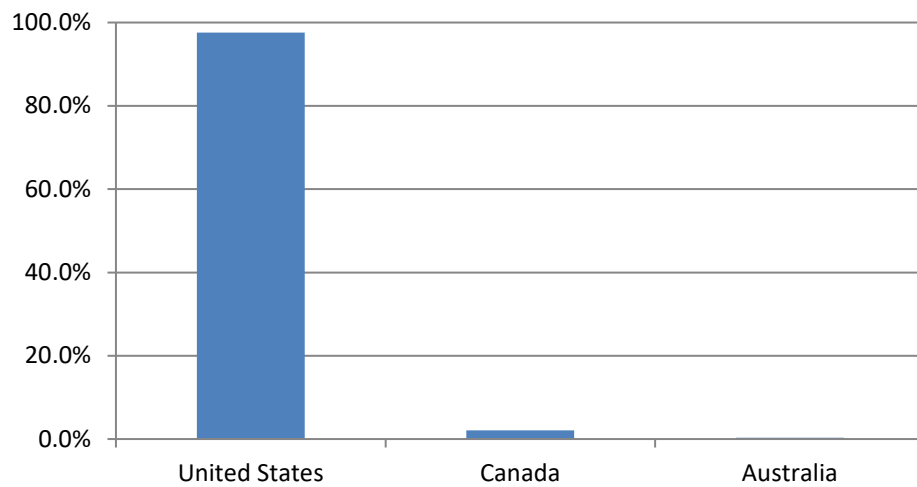
What is the terminal degree earned by the graduates in your program?



In what country is your program located?

	N	Valid Percent
United States	325	97.6%
Canada	7	2.1%
Australia	1	0.3%
Total	333	100.0%

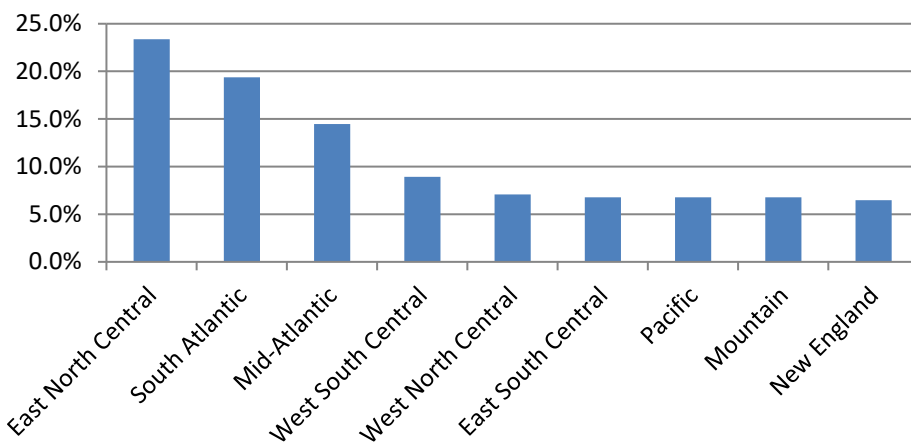
In what country is your program located?



If you chose the United States in the question above, please indicate in which region your program is located.

	N	Valid Percent
East North Central (WI, MI, IL, IN, OH)	76	23.4%
South Atlantic (DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	63	19.4%
Mid-Atlantic (NY, PA, NJ)	47	14.5%
West South Central (OK, TX, AR, LA)	29	8.9%
West North Central (ND, SD, NE, KS, MN, IA, MO)	23	7.1%
East South Central (KY, TN, MS, AL)	22	6.8%
Pacific (AK, WA, OR, CA, HI)	22	6.8%
Mountain (ID, MT, WY, NV, UT, CO, AZ, NM)	22	6.8%
New England (ME, NH, VT, MA, RI, CT)	21	6.5%
Total	325	100.0%

If you chose the United States in the question above, please indicate in which region your program is located.

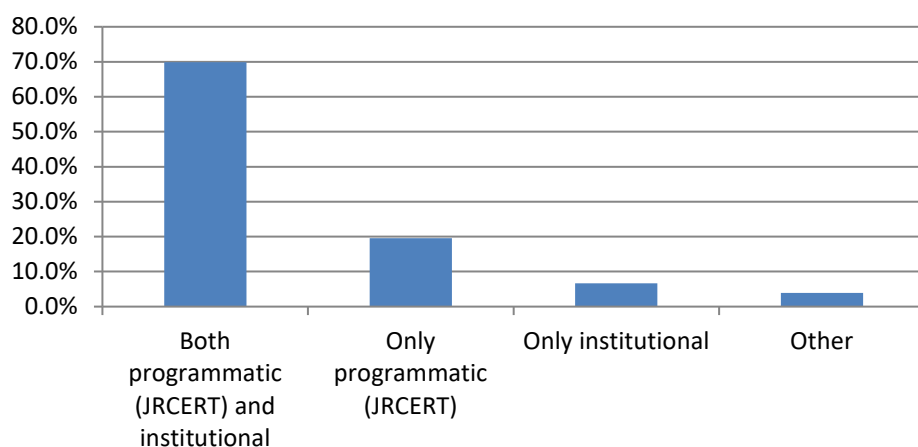


Accreditation and Credit Hours

What is the level of educational accreditation in your program?

	N	Valid Percent
Both programmatic (JRCERT) and institutional	232	69.9%
Only programmatic (JRCERT)	65	19.6%
Only institutional	22	6.6%
Other	13	3.9%
Total	332	100.0%

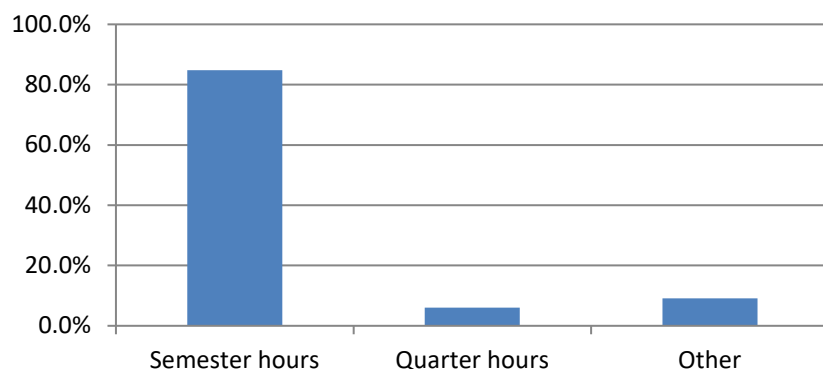
What is the level of educational accreditation in your program?



What type of credit system do you use in your program?

	N	Valid Percent
Semester hours	279	84.8%
Quarter hours	20	6.1%
Other	30	9.1%
Total	329	100.0%

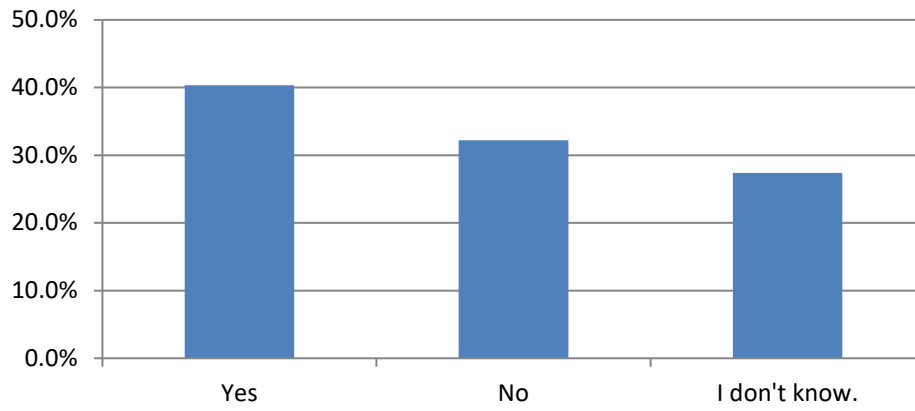
What type of credit system do you use in your program?



Does your state mandate a limit on the maximum number of credits required for a degree in your program?

	N	Valid Percent
Yes	134	40.4%
No	107	32.2%
I don't know.	91	27.4%
Total	332	100.0%

Does your state mandate a limit on the maximum number of credits required for a degree in your program?



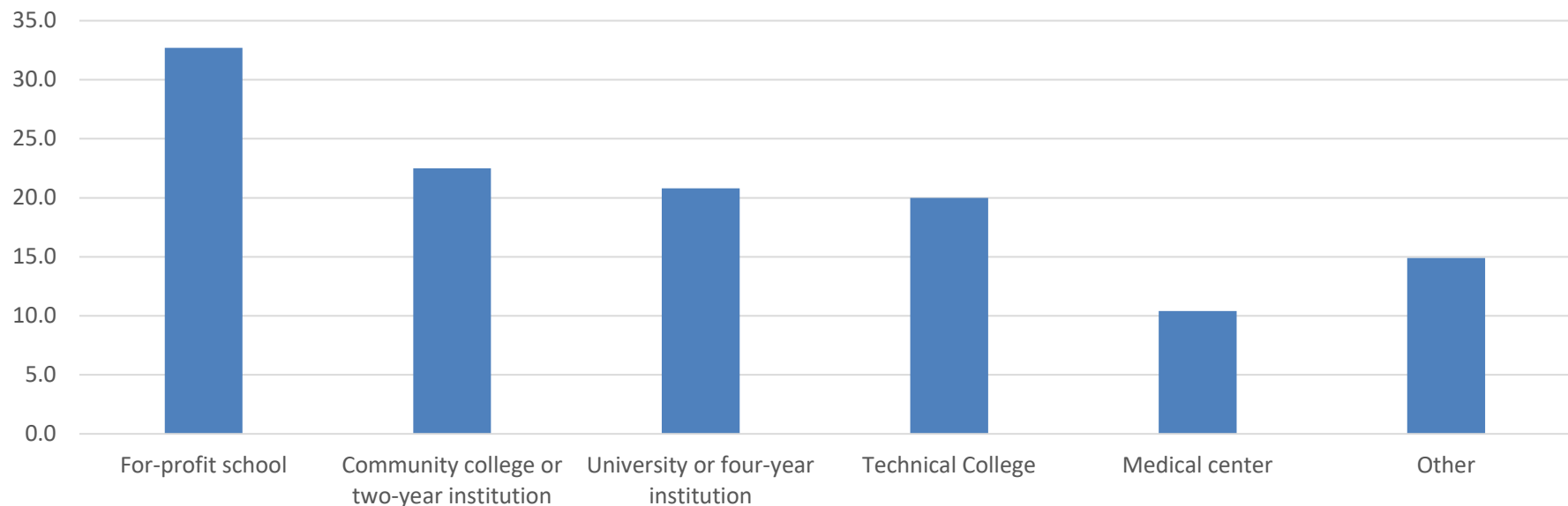
2017 Enrollment Analysis

Mean number of students entering by program and institution type.

	Radiography			Radiation Therapy			Nuclear Medicine Technology			Overall		
	Mean	N	SD	Mean	N	SD	Mean	N	SD	Mean	N	SD
For-profit school	34.6	8	15.7	17	1	-	-	-	-	32.7	9	15.8
Community college or two-year institution	23.8	116	17.6	10.6	8	4	12.8	6	8.7	22.5	130	17.1
University or four-year institution	26.4	52	16.7	11.5	19	8	13.7	16	7.1	20.8	87	15.3
Technical college	20.6	28	11.4	12	1	-	10	1	-	20	30	11.3
Medical center	12	46	6.8	6.8	8	3.4	4.1	7	3.1	10.4	61	6.7
Other	16.8	9	17.7	-	-	-	6.5	2	.7	14.9	11	16.3
Total	22.0	259	16.1	10.5	37	6.5	10.9	32.0	7.4	19.6	328	15.4

An analysis of variance showed an overall difference in the mean number of students entering by institution type, $F(2, 324) = 16.17, P < .001$. Post hoc comparisons using the Bonferroni correction indicated that the mean number of students entering medical centers was statistically different than the other institution types, $P < .001, (.05/6)$.

Mean number of students entering by program and institution type. (Overall)

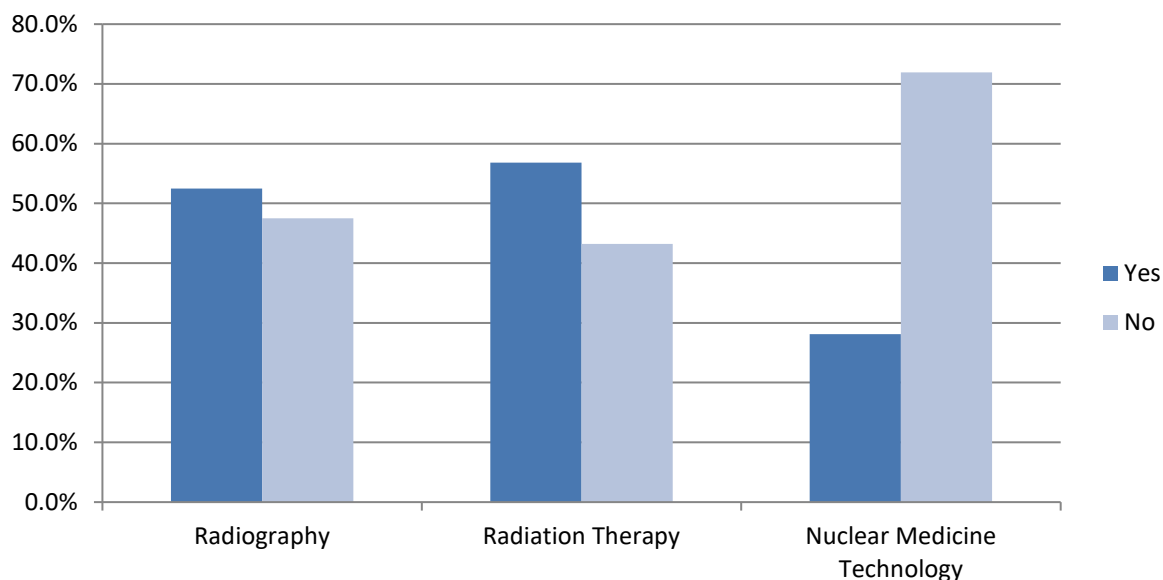


Is your program currently at full enrollment?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
Yes	N	136	21	9	166
	%	52.5%	56.8%	28.1%	50.6%
No	N	123	16	23	162
	%	47.5%	43.2%	71.9%	49.4%
Total	N	259	37	32	328
	%	100.0%	100.0%	100.0%	100.0%

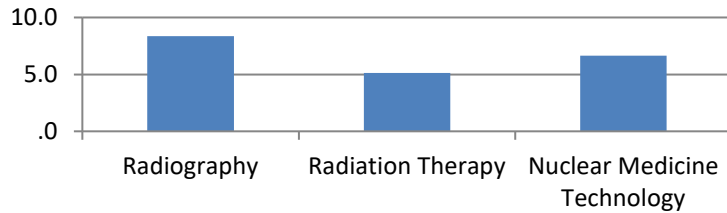
The percentage differences were statistically significant $\chi^2 (2, n = 328) = 7.4, p = .025$.

Is your program currently at full enrollment?

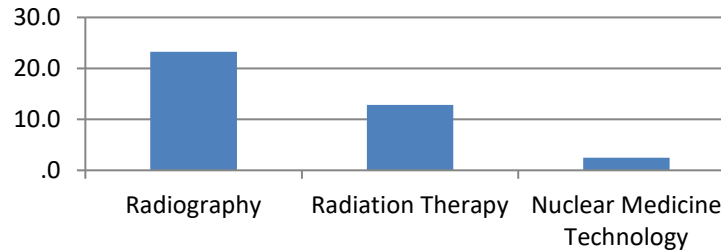


	Radiography			Radiation Therapy			Nuclear Medicine Technology			Overall		
	Mean	N	SD	Mean	N	SD	Mean	N	SD	Mean	N	SD
If you are not at full enrollment, how many additional students could be accommodated by your program?	8.4	120	10.4	5.1	14	2.5	6.7	23	6.6	7.8	157	9.5
How many qualified students did you turn away this fall?	23.3	247	43.7	12.9	34	13.9	2.5	32	3.9	20.0	313	39.6
What was the attrition rate for the class of 2017?	18.7%	244	14.7%	9.5%	33	11.2%	9.3%	29	9.7%	16.8%	306	14.5%
What percentage of students graduating in 2017 passed the credentialing exam on the first try?	91.2%	253	13.3%	91.6%	34	17.1%	91.9%	29	15.4%	91.3%	316	13.9%

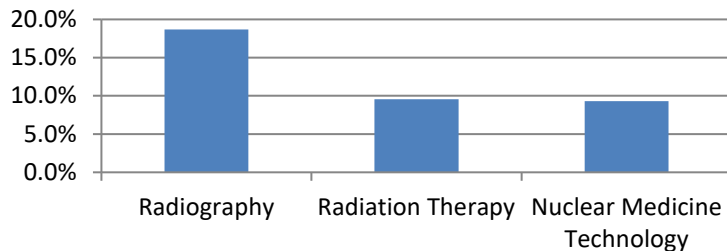
If you are not at full enrollment, how many additional students could be accommodated by your program?



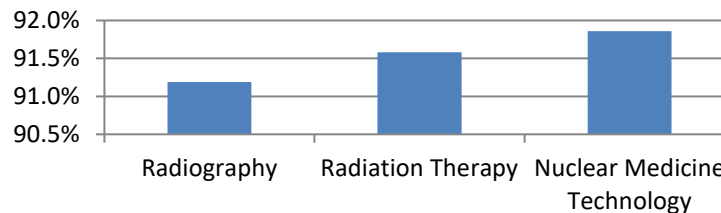
How many qualified students did you turn away this fall?



What was the attrition rate for the class of 2017?



What percentage of students from the class of 2017 passed the credentialing exam on the first try?

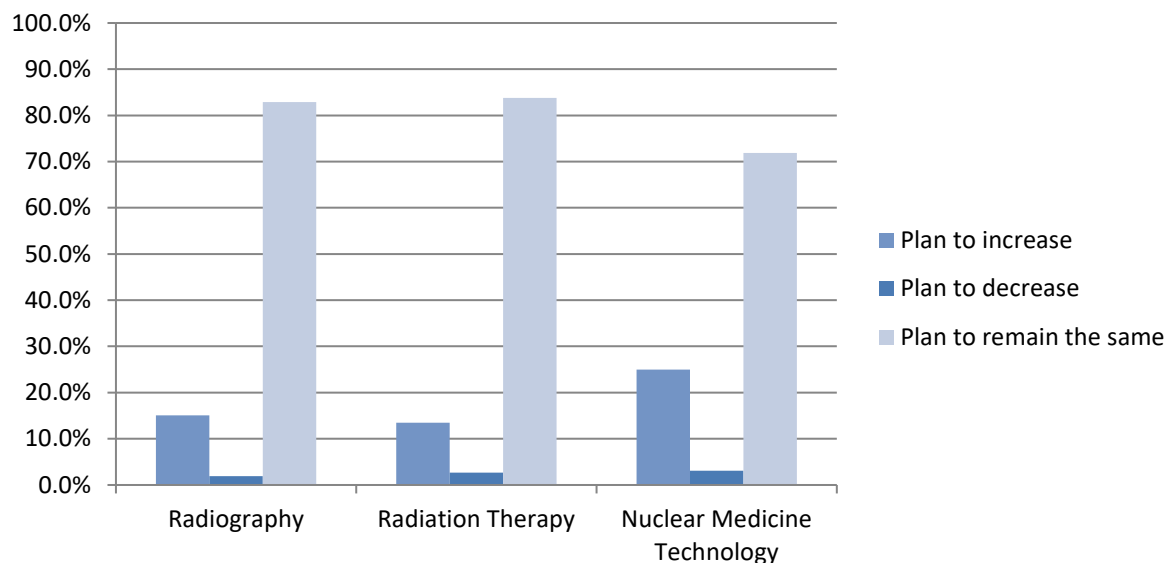


Do you plan any changes related to enrollment?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
Plan to increase	N	39	5	8	52
	%	15.1%	13.5%	25.0%	15.9%
Plan to decrease	N	5	1	1	7
	%	1.9%	2.7%	3.1%	2.1%
Plan to remain the same	N	214	31	23	268
	%	82.9%	83.8%	71.9%	82.0%
Total	N	258	37	32	327
	%	100.0%	100.0%	100.0%	100.0%

There were no statistically significant differences between groups.

Do you plan any changes related to enrollment?

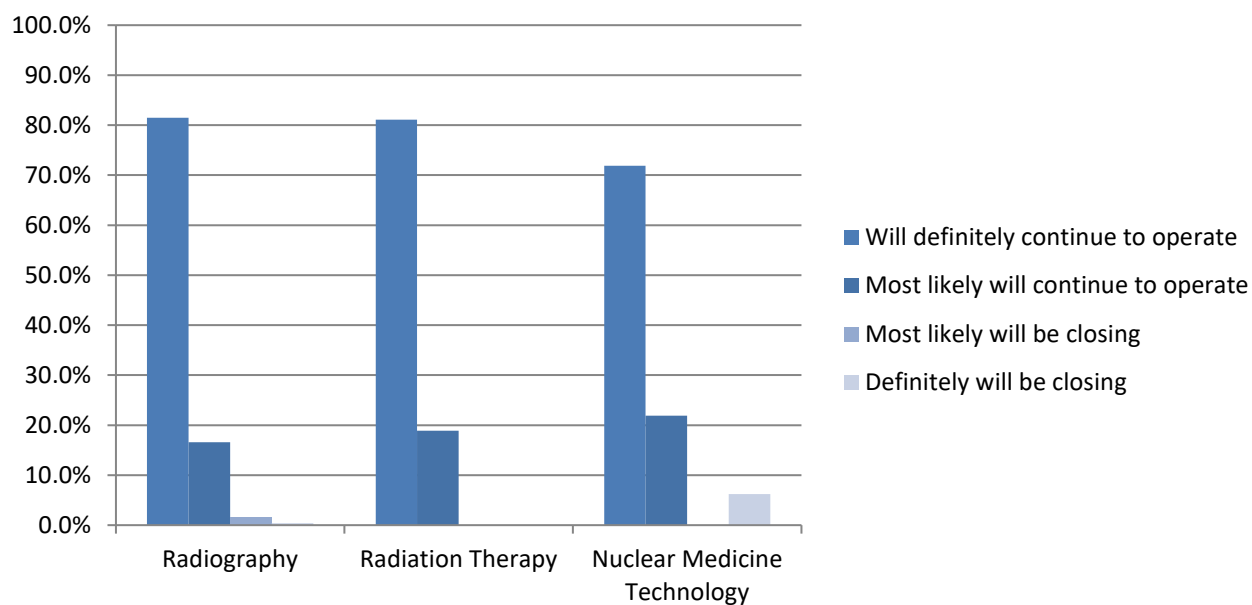


How viable is your program over the next few years?

		Radiography	Radiation Therapy	Nuclear Medicine Technology	Overall
Will definitely continue to operate	N	211	30	23	264
	%	81.5%	81.1%	71.9%	80.5%
Most likely will continue to operate	N	43	7	7	57
	%	16.6%	18.9%	21.9%	17.4%
Most likely will be closing	N	4	0	0	4
	%	1.5%	0.0%	0.0%	1.2%
Definitely will be closing	N	1	0	2	3
	%	0.4%	0.0%	6.2%	0.9%
Total	N	259	37	32	328
	%	100.0%	100.0%	100.0%	100.0%

The percentage differences were statistically significant $\chi^2 (6, n = 328) = 13.0 p = .043$.

How viable is your program over the next few years?

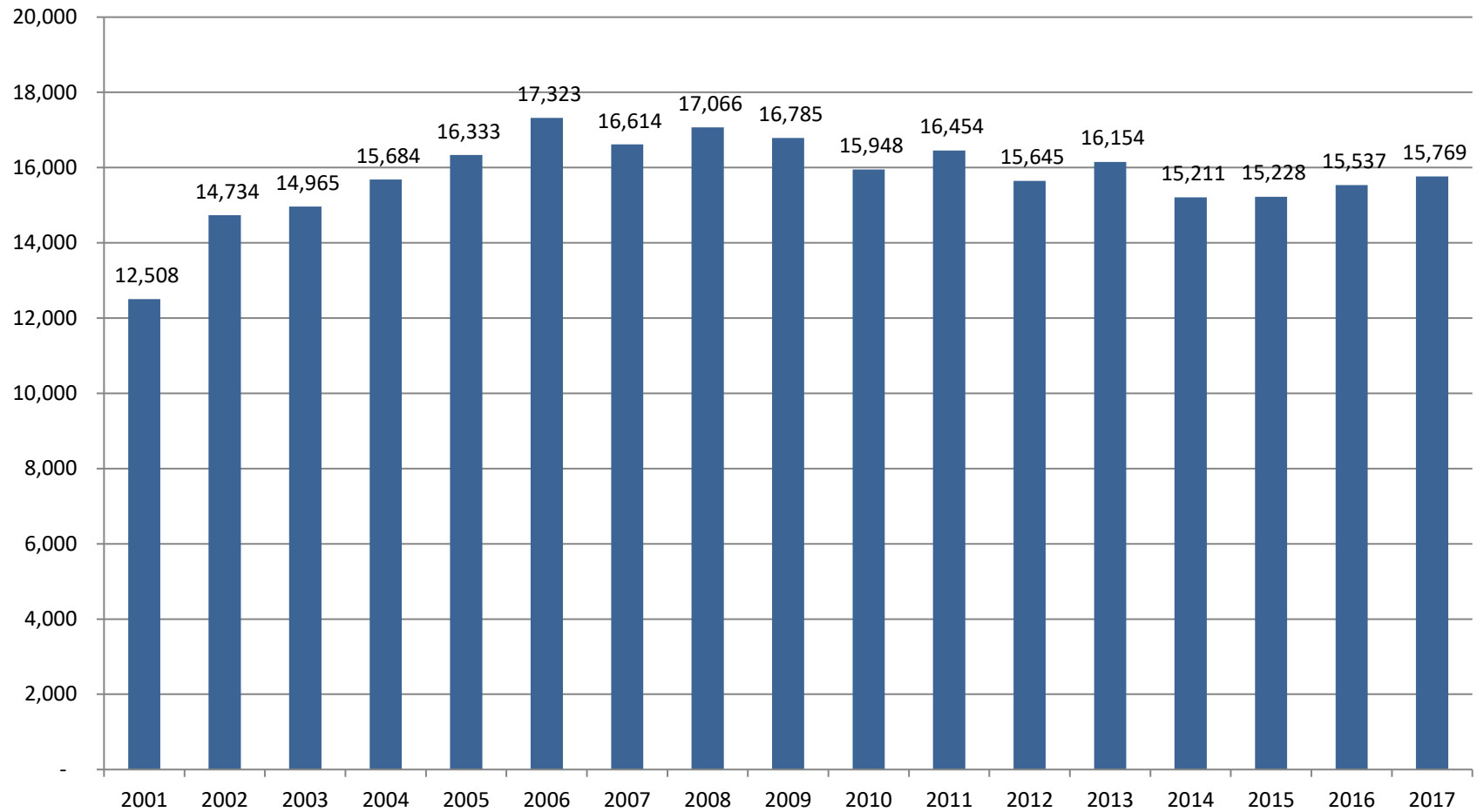


Longitudinal Enrollment Trends

Radiography

Year	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	590	75.4%	21.2	12,508	21.6%	50.2%	-	-	-	-
2002	631	67.5%	23.4	14,734	23.6%	30.9%	8.7	1,696	31.6	13,778
2003	639	71.4%	23.4	14,965	21.6%	21.2%	5.8	786	46.8	23,565
2004	684	68.7%	22.9	15,684	20.5%	21.7%	7.5	1,113	55.1	29,510
2005	715	66.4%	22.8	16,333	18.1%	20.9%	7.4	1,106	50.9	28,787
2006	723	74.7%	24.0	17,323	18.4%	22.6%	7.0	1,144	59.2	33,128
2007	729	69.3%	22.8	16,614	17.8%	30.2%	7.1	1,563	56.8	28,902
2008	742	71.0%	23.0	17,066	21.1%	33.3%	8.4	2,076	50.4	24,944
2009	746	61.0%	22.5	16,785	20.8%	40.0%	3.7	1,104	43.4	19,426
2010	751	65.5%	21.2	15,948	23.3%	43.7%	7.6	2,490	39.1	16,528
2011	751	57.8%	21.9	16,454	25.8%	46.2%	7.6	2,637	37.1	14,978
2012	750	62.8%	20.9	15,645	29.1%	44.9%	8.3	2,785	39.5	16,336
2013	741	50.5%	21.8	16,154	27.9%	46.5%	7.8	2,688	36.3	14,391
2014	739	49.1%	20.6	15,211	31.2%	50.3%	7.2	2,682	34.1	12,522
2015	736	54.2%	20.7	15,228	36.7%	49.9%	8.7	3,195	27.7	10,214
2016	736	39.5%	21.1	15,537	18.2%	47.6%	6.6	2,326	23.6	9,102
2017	727	35.6%	21.7	15,769	18.5%	47.5%	8.3	2,849	30.8	11,756

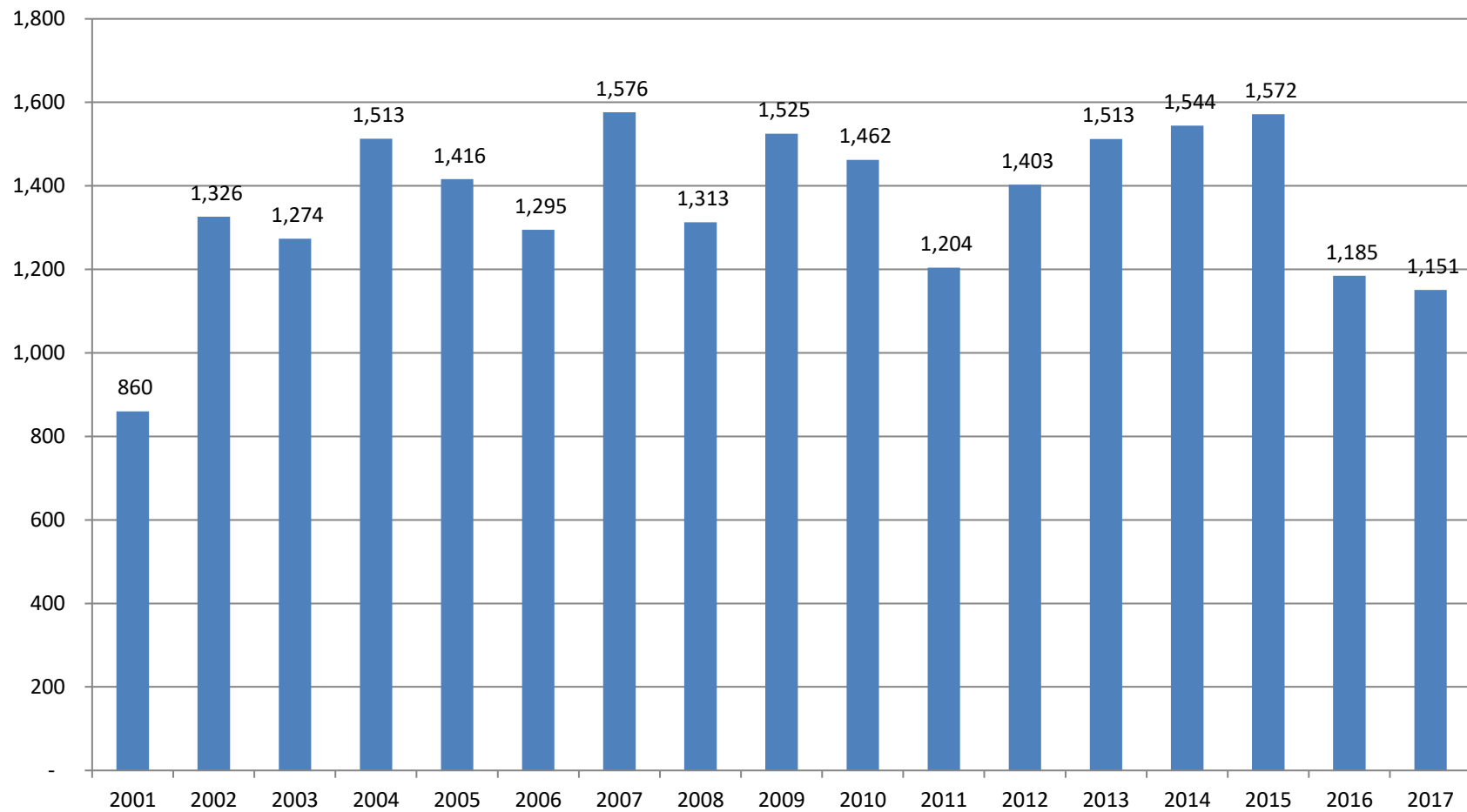
Estimated total number of students enrolled in all Radiography programs:



Radiation Therapy

Year	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	86	60.5%	10.0	860	18.1%	44.4%	-	-	-	-
2002	95	58.9%	14.0	1,326	11.1%	48.0%	5.7	260	9.1	450
2003	101	57.4%	12.6	1,274	18.0%	44.6%	4.4	198	13.6	761
2004	105	55.2%	14.4	1,513	11.9%	30.5%	12.5	400	13.4	978
2005	113	63.7%	12.5	1,416	16.8%	32.1%	3.4	123	24.5	1880
2006	118	68.6%	11.0	1,295	16.6%	49.3%	6.4	372	21.6	1292
2007	122	57.4%	12.9	1,576	15.2%	51.5%	6.3	396	13.3	787
2008	125	49.6%	10.5	1,313	14.4%	58.6%	4.5	330	33.0	1708
2009	122	50.8%	12.5	1,525	10.9%	55.5%	3.7	251	15.8	858
2010	122	58.2%	12.0	1,462	18.3%	49.3%	7.9	475	18.0	1112
2011	123	42.3%	9.8	1,204	21.9%	51.9%	6.1	388	14.3	846
2012	122	48.4%	11.5	1,403	18.9%	53.4%	6.9	451	14.4	818
2013	121	55.4%	12.5	1,513	21.8%	57.6%	5.7	397	17.1	877
2014	117	45.3%	13.2	1,544	26.5%	49.1%	6.2	355	15.7	935
2015	113	49.6%	13.9	1,572	24.6%	55.4%	7.1	444	14.8	746
2016	110	35.5%	10.8	1,185	7.3%	60.5%	4.6	309	11.3	492
2017	110	33.6%	10.5	1,151	10.0%	43.2%	5.2	247	16.0	998

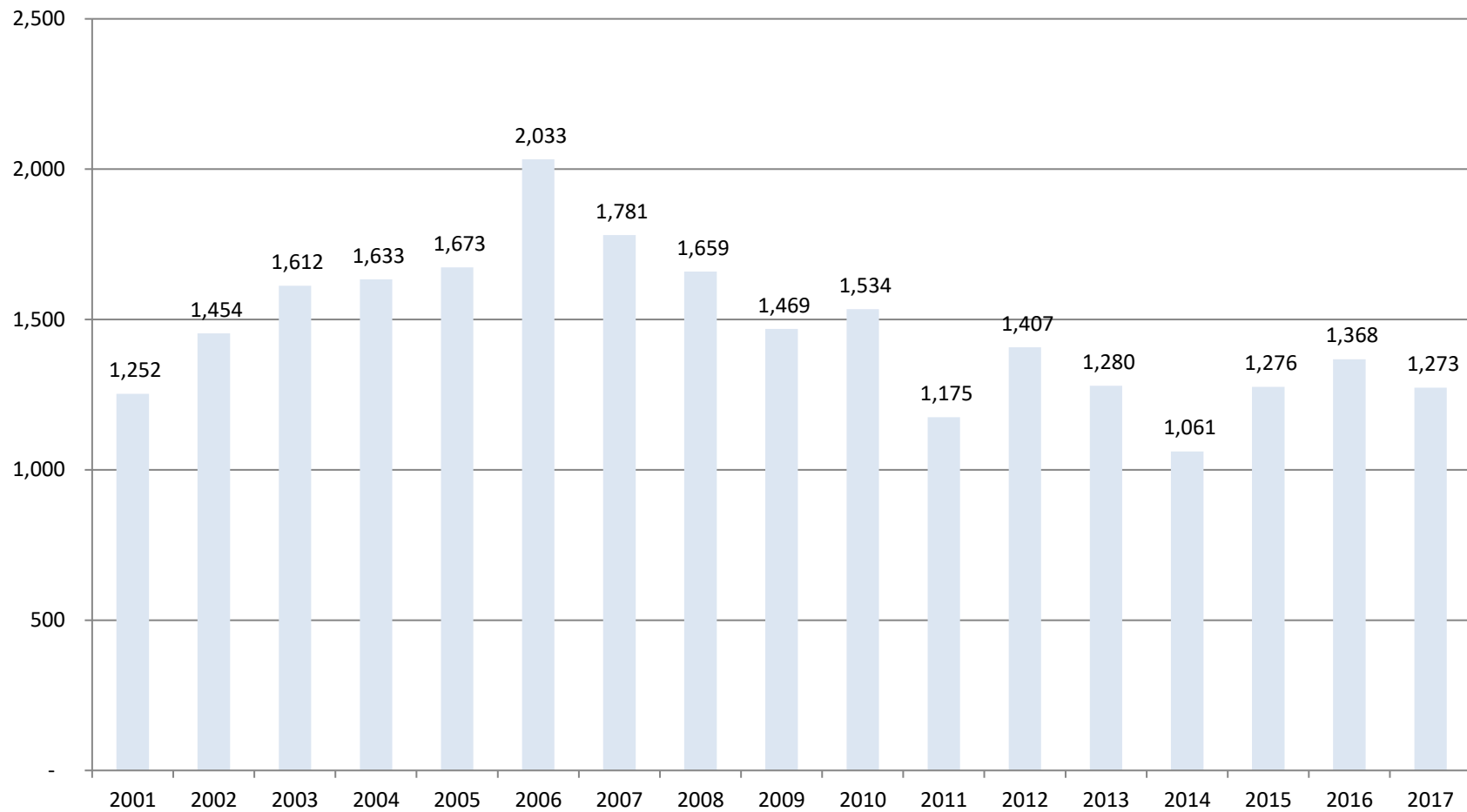
Estimated total number of students enrolled in all Radiation Therapy programs:



Nuclear Medicine

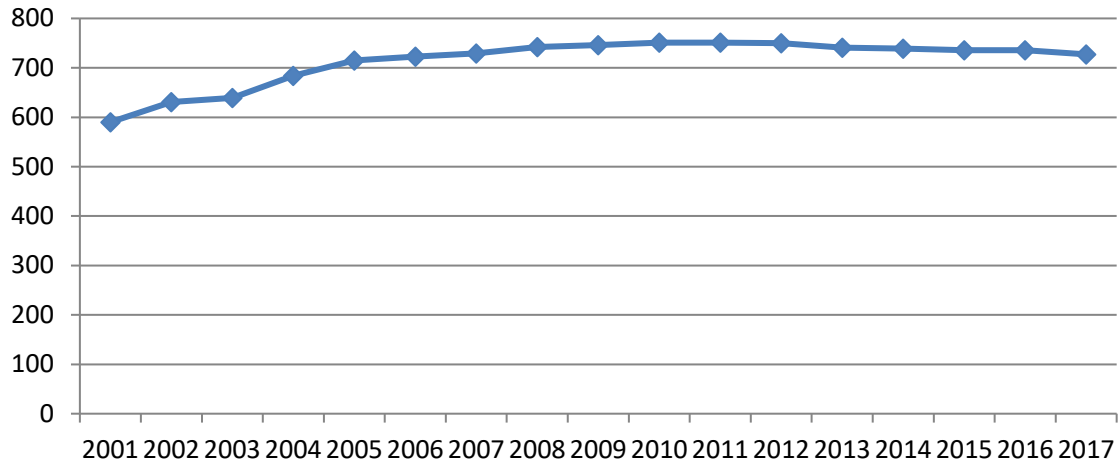
Year	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
2001	101	62.4%	12.4	1,252	11.8%	53.2%	-	-	-	-
2002	104	55.8%	14.0	1,454	8.0%	35.7%	6.7	248.8	19.7	1317
2003	111	59.5%	14.5	1,612	7.1%	33.3%	2.7	99.8	32.1	2377
2004	117	58.1%	14.0	1,633	9.8%	20.9%	3.6	88.0	24.4	2258
2005	122	57.4%	13.7	1,673	8.6%	30.6%	5.1	190.4	32.9	2786
2006	131	71.8%	15.5	2,033	10.2%	31.8%	5.7	237.5	30.2	2698
2007	132	56.8%	13.5	1,781	8.3%	39.7%	6.3	330.1	24.2	1926
2008	136	59.6%	12.2	1,659	12.3%	58.4%	10.0	794.2	18.2	1030
2009	136	48.5%	10.8	1,469	7.0%	63.0%	4.3	368.4	9.3	468
2010	136	48.5%	11.3	1,534	12.9%	78.8%	7.0	747.9	12.9	372
2011	134	47.0%	8.8	1,175	11.3%	82.5%	7.2	796.0	8.0	187
2012	134	56.7%	10.5	1,407	18.4%	73.0%	8.7	851.0	6.4	231
2013	128	46.9%	10.0	1,280	23.8%	76.1%	7.9	769.5	7.8	239
2014	125	42.4%	8.5	1,061	36.7%	79.2%	8.1	802.4	8.3	216
2015	122	50.8%	10.5	1,276	17.3%	68.9%	6.0	504.3	4.5	171
2016	120	33.3%	11.4	1,368	11.1%	67.5%	7.8	631.8	3.2	124
2017	117	27.4%	10.9	1,273	9.3%	71.9%	6.7	559.4	2.5	82

Estimated total number of students enrolled in all Nuclear Medicine programs:

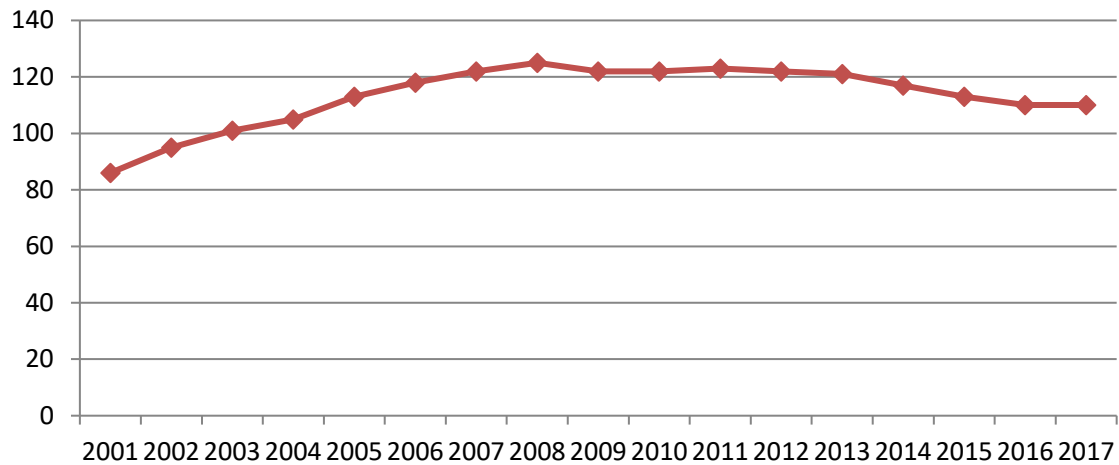


Number of ARRT-recognized programs by discipline:

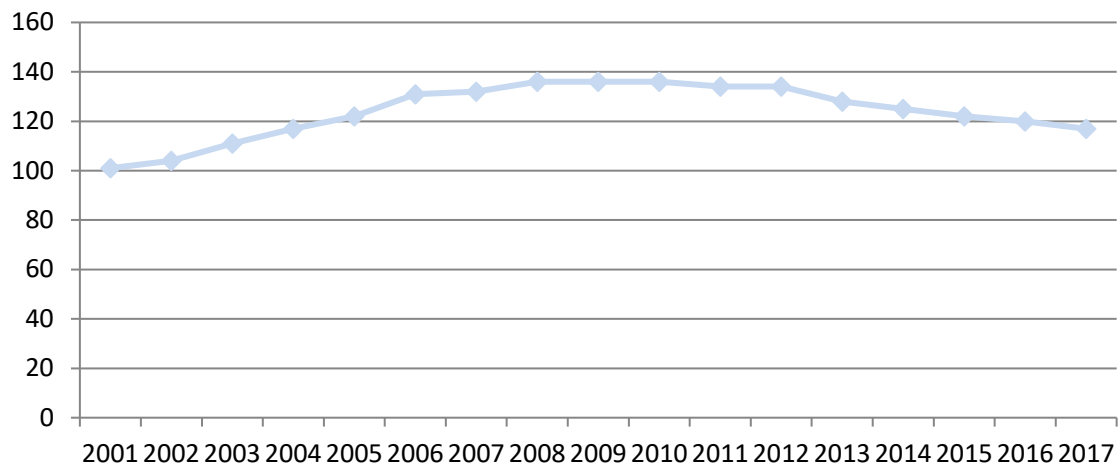
Radiography



Radiation Therapy



Nuclear Medicine Technology



2017 Comparison of U.S. and Canadian Programs

Radiography

Country	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
USA	697	36.6%	21.7	15,115	18.7%	47.5%	8.4	2,764	23.3	8,513
Canada	21	14.3%	27.3	574	5.0%	66.7%	2.0	28	484.3	3,387

Radiation Therapy

Country	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
USA	90	37.8%	10.5	942	9.5%	44.1%	5.1	204	12.9	647
Canada	15	20.0%	10.3	155	15.0%	33.3%	6.0	30	51.3	514

Nuclear Medicine Technology

Country	ARRT-recognized programs	Percent of programs responding to survey with enrollment data	Mean number of students entering classroom	Estimated total students enrolled for all programs	Mean attrition Rate	Percent of programs not at full capacity	Mean additional students per program for those not at full capacity	Estimated total additional students for programs not at full capacity	Mean qualified students per program turned away	Estimated total qualified students turned away
USA	112	28.6%	10.9	1,218	9.3%	71.9%	6.7	535.7	2.5	79
Canada	5	0.0%	0.0	-	0.0%	-	0.0	-	0.0	-

Reported Job Placement of Graduates

What percentage of students were able to find employment in their discipline within six months after graduation?

	West North Central (ND, SD, NE, KS, MN, IA, MO)	Mid-Atlantic (NY, PA, NJ)	South Atlantic (DE, MD, DC, VA, WV, NC, SC, GA, FL, PR)	West South Central (OK, TX, AR, LA)	East North Central (WI, MI, IL, IN, OH)	Pacific (AK, WA, OR, CA, HI)	East South Central (KY, TN, MS, AL)	New England (ME, NH, VT, MA, CT)	Mountain (ID, MT, WY, NV, UT, CO, AZ, NM)	Overall
--	---	---------------------------	---	-------------------------------------	---	------------------------------	-------------------------------------	----------------------------------	---	---------

Radiography

2009	84.1%	80.3%	82.7%	84.5%	81.1%	77.8%	86.3%	86.2%	79.1%	82.2%
2010	82.3%	76.2%	80.1%	85.6%	80.8%	74.2%	88.5%	82.1%	78.9%	80.8%
2011	86.7%	87.0%	84.0%	93.0%	87.7%	81.0%	90.0%	85.9%	86.8%	86.9%
2012	88.7%	84.6%	86.3%	77.8%	87.7%	84.7%	86.7%	80.3%	82.2%	85.3%
2013	87.9%	86.6%	85.2%	80.4%	87.2%	85.2%	81.9%	76.9%	86.1%	85.1%
2014	97.6%	92.9%	89.7%	95.9%	92.3%	90.5%	94.8%	87.8%	94.4%	93.0%
2015	99.0%	94.3%	94.9%	96.0%	94.4%	95.8%	96.8%	96.8%	91.0%	95.3%
2016	98.5%	98.4%	97.6%	97.1%	95.9%	94.5%	94.1%	94.0%	84.7%	95.4%

Radiation Therapy

2009	85.3%	83.2%	70.5%	79.8%	70.4%	92.0%	63.3%	84.2%	-	77.4%
2010	79.0%	78.5%	78.7%	89.7%	87.7%	93.3%	78.3%	74.1%	-	81.9%
2011	86.1%	85.0%	68.6%	85.0%	77.3%	96.0%	82.5%	87.5%	70.0%	81.4%
2012	79.6%	88.7%	94.2%	78.8%	83.9%	82.2%	100.0%	92.5%	97.5%	87.2%
2013	87.0%	92.3%	96.3%	65.8%	76.8%	89.7%	95.0%	85.0%	91.5%	85.6%
2014	92.5%	86.0%	92.6%	85.0%	87.2%	97.5%	93.8%	93.2%	90.0%	90.6%
2015	94.8%	80.0%	89.3%	95.0%	88.7%	95.0%	96.7%	98.0%	55.0%	88.7%
2016	95.8%	84.0%	100.0%	100.0%	100.0%	100.0%	100.0%	91.7%	6.0%	92.0%

Nuclear Medicine Technology

2009	86.0%	79.4%	80.0%	90.1%	76.7%	83.9%	91.2%	83.8%	87.3%	83.2%
2010	69.6%	61.6%	72.4%	77.0%	63.6%	76.7%	87.4%	63.8%	81.7%	70.6%
2011	86.1%	41.9%	70.5%	77.3%	48.9%	92.3%	70.5%	48.8%	75.0%	63.6%
2012	90.0%	80.8%	84.2%	71.7%	76.9%	100.0%	90.0%	83.2%	93.3%	83.8%
2013	95.0%	80.0%	81.7%	80.0%	88.4%	92.0%	89.6%	70.3%	89.3%	83.7%
2014	85.0%	45.3%	88.4%	84.9%	81.9%	93.3%	84.0%	64.5%	96.7%	82.1%
2015	93.8%	59.3%	65.3%	83.8%	76.8%	80.0%	83.8%	71.0%	90.0%	76.3%
2016	100.0%	96.5%	91.6%	67.0%	87.1%	100.0%	100.0%	50.0%	-	89.8%

Overall Mean Placement Rates for Graduates

