

C A M P E P

Commission on Accreditation of Medical Physics Education Programs, Inc.

Graduate Program Report

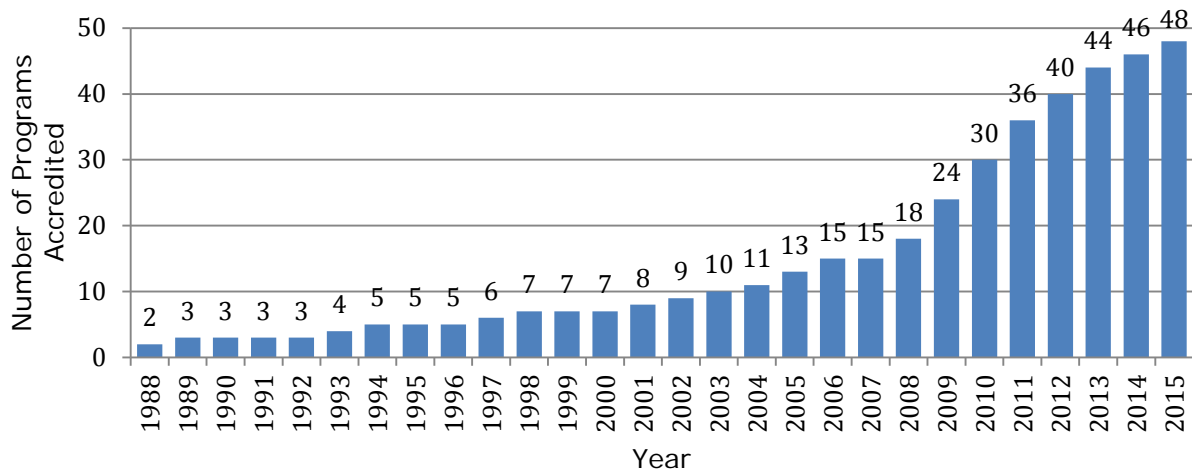
AAPM Anaheim, 11 July 2015

B Clark, PhD, FCCPM, FAAPM, FCOMP
Chair, CAMPEP GEPRC

Current Status

	2014	2013	
# Accredited graduate programs:	48	45	
# Accredited DMP programs:	2	1	(included in total)
# Programs in initial review process:	3		(2 graduate, 1 DMP)
# Accredited certificate programs:	17	12	
# Residency certificate programs	2	+1	
# Accredited programs in:			
–US	35		
–Canada	12		
–Outside North America	1		

Growth of Accredited Programs



Sponsoring Organizations: American Association of Physicists in Medicine, American College of Radiology, American Society for Radiation Oncology, Canadian Organization of Medical Physicists, Radiological Society of North America Inc.

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Annual Reports

- Submission of an annual report is a condition of accreditation

Disclaimer:

- *These data were submitted “voluntarily” and is ??% accurate ??% of the time!*

2014 Data

- 48 institutions responded, 47 accredited programs, 1 non-accredited
- 36 entire program accredited, 11 some tracks not accredited
- 40 programs do not accept students with missing physics courses
- 8 programs accept students with missing physics courses and remediate

# Programs offering:	2010	2011	2012	2013	2014
MS Degrees	31	32	39	43	43
PhD Degrees	22	24	29	30	34
MS & PhD Degrees	19	20	27	28	30
MS Degree Only	12	9	11	13	13
PhD Degree Only	3	2	2	2	3
DMP	1	1	1	1	2

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Graduate Program Applicants

	2010	2011	2012	2013	2014
# applications reviewed	1668	1604	2061	1801	1953
# offered admission	501	484	570	545	602
# matriculated	276	258	311	289	324
Average GPA (MS/PhD)	3.46	3.56	3.5/3.6	3.5/3.6	3.5/3.6

Entering Class

	2010	2011	2012	2013	2014
MS/MSc – Male	70%	72%	68%	64%	69%
PhD – Male	78%	80%	70%	71%	69%
DMP - Male					60%

Nationality	2010	2011	2012	2013	2014
MS/MSc – Domestic	91%	82%	82%	91%	80%
PhD – Domestic	82%	75%	84%	80%	77%
From under-represented racial or ethnic groups			14%	22%	12%

# Programs	Ethnic %
19	0%
13	<25%
5	25%-50%
5	> 50%
42	Total

Premature Departure

- 19 Programs reported 25 (2.3%) students left prior to completion
 - Up from 22 (2.0%) in 2013
 - 7 left for medical or personal reasons
 - 7 found the topic not to be a match for their interests
 - 6 left to take a job
 - 5 left as a result of poor performance

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Enrollment and Graduates

	2009	2010	2011	2012	2014
Enrollment					
MS/MSc	431	450	466	467	458
PhD	458	465	534	572	543
DMP			20	20	25
Certificate			18	34	49
Total	889	915	1038	1093	1075
Graduates					
MS/MSc	168	148	198	162	164
PhD	69	67	80	113	107
DMP				4	5
Certificate				9	21
Total	237	215	278	288	297

MS/MSc Graduate Destination

	2011	2012	2013	2014
Entered RT residency	33 (24%)	44 (22%)	37 (23%)	40 (25%)
Entered IP residency	1 (1%)	1 (<1%)	4 (3%)	5 (3%)
Junior MP position	53 (38%)	62 (31%)	48 (30%)	39 (24%)
Another degree	20 (14%)	49 (25%)	27 (17%)	39 (24%)
Position in industry	12 (9%)	6 (3%)	17 (11%)	14 (19%)
Position in government				4 (2%)
Still seeking position		16 (8%)	16 (10%)	8 (5%)
Other	20 (14%)	17 (9%)	12 (7%)	15 (9%)

PhD Graduate Destination

	2011	2012	2013	2014
Entered RT residency	23 (34%)	24 (30%)	28 (25%)	31 (29%)
Entered IP residency	5 (7%)	6 (8%)	4 (4%)	7 (7%)
Junior MP position	15 (22%)	18 (23%)	26 (24%)	16 (15%)
Post-doc	15 (22%)	11 (14%)	18 (16%)	14 (13%)
Another degree	2 (3%)	1 (1%)	3 (3%)	0
Position in industry	4 (6%)	9 (11%)	9 (8%)	5 (5%)
Position in government				2 (2%)
Still seeking a position		6 (8%)	5 (5%)	2 (2%)
Other	4 (6%)	4 (5%)	11 (10%)	0

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Other Graduate Destination

	DMP	Certificate
Entered RT residency	N/A	10 (48%)
Entered IP residency	N/A	
Junior MP position	5 (100%)	3 (14%)
Post-doc	N/A	5 (24%)
Another degree		
Took job in industry		
Still seeking a position		2 (10%)
Other		1 (5%)

Plans for DMP

	2010	2011	2012	2013	2014
No	22	22	26	29	32
Under consideration	6	4	5	4	4
In preparation	3	4	5	4	5
Waiting for institution approval	1	3	1	3	2
Awaiting CAMPEP accreditation	0	0	0	2	2
CAMPEP accredited	1	1	1	1	2

Plans for Clinical Residency

	2011	2012	2013	2014
No	7	9	10	17
Under consideration	3	7	6	6
In preparation	5	2	2	1
Waiting for institution approval	0	0	1	0
Awaiting CAMPEP accreditation	5	4	2	2
CAMPEP accredited	14	19	20	21
# Positions/year	15	25	17	16

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Certificate Programs

17 programs accredited, 9 reporting student numbers in 2014

	# Applicants	# Students Currently Registered	# Students Graduated	# Residency Positions	# PostDoc Positions
Calgary	4	2	1		1
Chicago	7	4	2	2	
Columbia	4	4	0		
Florida	20	12	4		2
Louisiana State	0	1	1		1
McGill	1	0	0		
Pennsylvania	12	19	9	6	1
UCLA	0	2	2	2	
Wayne State	15	5	2		
2014 Total	63	49	21	10	5
2013 Total	53	36	9	7	1

Faculty

	2010	2011	2012	2013	2014
Mean # Faculty/Program (formal affiliation)	20.7 (1-71)	20.2 (3-65)	20.0 (5-70)	18.9 (3-66)	17.5 (3-66)

Student Productivity

43 Programs reported academic activity (up from 37 in 2013)

417 peer reviewed publications, 939 presentations by students, range 0 -105

Plot below normalised to output per student

