Tuition & Financial Aid
For Medical Physics Graduate Programs (MPGP) Students

Tuition

The following is an estimate of the tuition and fees for 2020-2022. These numbers are an estimate and are subject to change.

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2020</td>
<td>$21,497</td>
<td>$21,497</td>
<td>$25,551</td>
<td>$78,545</td>
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<tr>
<td>Spring 2021</td>
<td>$21,497</td>
<td>$2,788</td>
<td>$19,163</td>
<td>$62,448</td>
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<tr>
<td>Summer 2021</td>
<td>$6,388</td>
<td>$2,900</td>
<td>$6,388</td>
<td>$15,668</td>
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<tr>
<td>Fall 2021</td>
<td>$25,551</td>
<td>$2,900</td>
<td>$28,450</td>
<td>$76,901</td>
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<tr>
<td>Summer 2022</td>
<td>$19,163</td>
<td>$2,900</td>
<td>$22,063</td>
<td>$63,126</td>
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<tr>
<td>GRAND TOTAL</td>
<td>$94,095</td>
<td>$12,018</td>
<td>$106,114</td>
<td>$222,227</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2020</td>
<td>$9,213</td>
<td>$9,213</td>
<td>$12,775</td>
<td>$31,199</td>
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<tr>
<td>Spring 2021</td>
<td>$9,213</td>
<td>$9,213</td>
<td>$6,388</td>
<td>$24,814</td>
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<tr>
<td>Fall 2021</td>
<td>$12,775</td>
<td>$1,285</td>
<td>$14,061</td>
<td>$38,021</td>
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<td>Spring 2022</td>
<td>$6,388</td>
<td>$6,43</td>
<td>$7,030</td>
<td>$19,848</td>
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<tr>
<td>GRAND TOTAL</td>
<td>$18,426</td>
<td>$1,854</td>
<td>$41,371</td>
<td>$61,651</td>
</tr>
</tbody>
</table>

Federal Funding

Federal Loans
Eligible domestic students should complete a FAFSA by the deadline. The Penn Student Financial Services (SFS) office will send out decisions about financial aid packages. Please contact www.sfs.upenn.edu for more information, and direct questions about Graduate Student Financial Aid to Elvira Cruz, the Graduate Financial Aid Counselor for students in the Perelman School of Medicine, at sfsmail@pobox.upenn.edu.

Employment

MPP Teaching Assistantships (TAs)
There are partial stipends available to select second year master’s students as teaching assistants for certain first year master’s courses (approximately $2,000 stipend per course).

Clinic
Hourly paid employment by the Department of Radiation Oncology for full-time enrolled master’s students beginning first year spring semester and full-time Certificate students for routine clinical work. This may include conducting patient-specific quality assurance (QA) measurements prior to treatment in the PCAM clinics (approximately $20/hour, up to 10 hours per week).

Graduate Associate (GA)
Graduate Associate (GA) positions for master’s students in Penn College Houses & Academic Services advise and support undergraduate students in exchange for dormitory housing and a dining allocation.
http://www.collegehouses.upenn.edu/join/ga

5/13/20
Teaching Assistant (TA)
There are part-time employment opportunities (non-work study positions) available in academic departments as teaching assistants (TAs). TAs typically help the instructor with the operations and logistics of a course.

Physics Department
Graders are usually needed. No TA training required. Pay is approximately $1,600 per semester for 5 – 10 hours work per week. Interested students may send an email request to Millicent Minnick, Physics Department Administrator, at mminnick@physics.upenn.edu. Briefly introduce yourself and mention any previous experience as a TA or grader as well as any relevant coursework you've taken.

Lab TAs may be needed. There is some required TA training. Pay is approximately $1,950 per semester for 3 – 5 hours work per week. Interested students may send an email request to Michelle Last, michlast@physics.upenn.edu. Briefly introduce yourself and mention any previous experience as a TA or grader as well as any relevant coursework you've taken.

Physics PhD students are given first priority for TA positions; extra positions are considered on a first-come, first-served basis.

Math Department
TA positions may be available. There is a requirement to participate in the Math department’s TA training. Interested students should contact Nakia Rimmer, rimmer@math.upenn.edu. Briefly introduce yourself as a Master of Medical Physics student and mention any previous experience as a TA or grader as well as any relevant coursework you've taken.

Research Assistant (RA) positions
Information will be available if part-time research positions are available from faculty from the Department of Radiation Oncology. Students may also email other faculty at Penn to inquire about available positions.

On-campus, non-work study jobs for Penn students*
https://www.sfs.upenn.edu/seo/job_search/job_search.php

*International students on a visa should check with ISSS about work eligibility.

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FUNDING FOR PROFESSIONAL DEVELOPMENT

MPP Professional Development
Each student will receive $1,000 as a reimbursement toward eligible expenses related to attending professional meetings and the American Board of Radiology (ABR) Part 1 Exam fee. There is also additional funding, awarded on a competitive basis, for expenses related to presenting a talk or poster at a professional meeting.

Paid Membership Dues
MPP will pay for student application fees and membership dues in the American Association of Physicists in Medicine (AAPM) and for Delaware Valley Chapter AAPM events.

Penn GAPSA Professional Student Travel Grant
The University of Pennsylvania’s GAPSA Professional Student Council distributes individual travel grants to defray the cost of qualified travel expenses for graduate students attending and/or presenting at academic conferences, meetings, and case competitions or pursuing professional development opportunities outside of the university.

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EXTERNAL SCHOLARSHIPS AND GRANTS

National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP)
https://www.nsfgrfp.org
This funding opportunity is for master’s students interested in STEM-based research projects and non-clinical careers.

Health Physics Society
http://hps.org/students/scholarships.html

American Physical Society (APS) Travel Award for Excellence in Graduate Research
Graduate students who are members of APS and FGSA are eligible to apply for a maximum award of $500 to cover travel expenses to attend a scientific conference or workshop.

AAPM Expanding Horizons Travel Grant
Awards up to fifteen travel grants per year, each up to $1000, for the purpose of providing additional support for student and trainee travel to conferences that are not specifically geared toward medical physics.

Best Medical/AAPM Travel Fellowship
Best Medical and The American Association of Physicists in Medicine (AAPM) offer a Travel Fellowship for Student, Resident or Junior Members of the AAPM to attend the AAPM Annual Meeting, to be exposed to and have access to the scientific and technical information and presentations on current and emerging topics in medical physics and related areas. Best Medical will provide five (5) fellowships in the amount of one thousand dollars ($1,000) each, to be awarded to the recipient prior to the AAPM Annual Meeting & Exhibition. Each applicant must be a Student, Resident or Junior Member of the American Association of Physicists in Medicine (AAPM). Each applicant must have an accepted abstract. Each applicant must be the 1st author.

United States Air Force Health Professions Scholarship
This opportunity covers 100% tuition, fees, textbooks, supplies, and stipend for two years; it requires an active duty service requirement.

BHW Group Scholarship Opportunity
https://thebhwgroup.com/scholarship
This $3,000 scholarship opportunity is open to undergraduate or graduate women in STEM fields. Applicants must write an essay about their favorite app. The 2020 deadline is April 15.