General University Information
President: Stephen K. Klasko
Dean of Graduate School: Debra Zelnick
University website: http://www.jefferson.edu/university.html
Control: Private
Setting: Urban

Department Information
Department Chairman: Dr. Frances Gilman, Chair
Department Contact: Frances Gilman, Chairman of Radiologic Sciences
Department Address: Jefferson College of Health Professions
901 Walnut Street, 7th Floor
Philadelphia, PA 19107
Phone: 2155031865
Fax: 2155031031
E-mail: Frances.Gilman@jefferson.edu
Website: http://www.jefferson.edu/university/health-professions/departments/radiologic-sciences.html

Admissions
Admission Contact Information
Address admission inquiries to: David Wood, Edison Building, Room 100, Philadelphia, PA 19107
Phone: 2155039847
E-mail: David.Wood@jefferson.edu
Admissions website: http://www.jefferson.edu/university/admissions.html

Application deadlines
Fall admission:
U.S. students: July 1
Int'l. students: June 1

Application fee
U.S. students: $50

Admission requirements
Bachelor's degree requirements: Physics Engineering or other physical science with Physics minors.
Minimum undergraduate GPA: 3.0

GRE requirements
The GRE is required.
Quantitative score: 150
Verbal score: 150
Analytical score: 3.5

Advanced GRE requirements
The Advanced GRE is not required.

TOEFL requirements
The TOEFL exam is required for students from non-English-speaking countries.
PRBT score: 525
iBT score: 80

Other admissions information
Undergraduate preparation assumed: We are assuming that by obtaining a Bachelor’s degree or an engineering degree with a minor in physics, the student will have courses in advanced mathematics and physics.

Tuition
Tuition year 2018–19:
Full-time students: $36,000 annual
Full time student status is required.
Credit hours per semester to be considered full-time: 9
Deferred tuition plan:
Health insurance: Available.
Academic term: Semester

Financial Aid
Loans
Loans are available for U.S. students.
Loans are not available for international students.
GAPSFAS application required: No
FAFSA application required: Yes

For further information
Address financial aid inquiries to:

Housing
Availability of on-campus housing
Single students: Yes

For further information
Housing aid website: http://www.jefferson.edu/university/housing.html

Table A—Faculty, Enrollments, and Degrees Granted

<table>
<thead>
<tr>
<th>Research Specialty</th>
<th>Faculty</th>
<th>Master's</th>
<th>Doctorate</th>
<th>Master's</th>
<th>Terminal Master's</th>
<th>Doctorate</th>
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<tbody>
<tr>
<td>Medical Physics</td>
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<td>-</td>
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<tr>
<td>Full-time Grad. Stud.</td>
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<tr>
<td>First-year Grad. Stud.</td>
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</tbody>
</table>

Graduate Degree Requirements
Master’s: Our program has four major components - course work, laboratory work, clinical practicum, and a capstone. The student must maintain a B average in all of their course work and laboratory courses. During the summer between their first and second year, students will be assigned to a clinical site in which they will be expected to observe the tasks of a medical physicist. Lastly, a student must complete a capstone project which is the culmination of their individual research efforts. They will work closely with a faculty member to design and complete their research.
SPECIAL EQUIPMENT, FACILITIES, OR PROGRAMS

External Beam:
- Varian Truebeam
- Elekta with Agility Head
- Eclipse and Monaco Treatment planning systems
- 3D, IMRT, VMAT plans
- ABC and Varian RPM systems
- CBCT, CT, 4DCT, Varian OBI
- Gamma Knife and Cyberknife

Brachytherapy:
- HDR Afterloader
- GYN applicators: SYED, Vaginal Cylinder, Ring and Tandem, Rotte
- Breast: SAVI, Mammosite, Contura
- Skin: Freiburg Flap, Valencia Applicator
- Prostate HDR

FACULTY

Associate Professor
- Den, Robert, M.D., Harvard School of Medicine, 2006. Director of Medical Resident Program. *Medical, Health Physics.*

Assistant Professor
- Reyhan, Meral, Ph.D., University of California Los Angeles, 2012. Clinical Instructor. *Medical, Health Physics.* My research is focused on development of quantitative imaging techniques and analysis. I have worked on developing an image processing algorithm in conjunction with modified magnetic resonance pulse sequences to analyze changes in left ventricular twist and torsion, as well as to quantify changes in cardiac rotational mechanics in pediatric patients and patients with mitral regurgitation. I have also developed algorithms to assess in-vivo film dosimetry using radiochromic film. Recently, I have been working on neural network based approaches to radiotherapy imaging quality assurance.

Instructor
- Doyle, Laura, M.S., University of Kentucky, 2008. Director of Brachytherapy. *Medical, Health Physics.* My current research interests include the role of accreditation in radiation oncology, the application of quality improvement methodology in radiation oncology and evaluation and optimization of clinical brachytherapy practices.
- Keller, James, Ph.D., Oregon Health and Sciences/Oregon State University, 2013. Masters of Science in Medical Physics Program Director Clinical Instructor. *Medical, Health Physics.* Current, the quality assurance procedure for 6 degrees of freedom robotic couch.

DEPARTMENTAL RESEARCH SPECIALTIES AND STAFF

Experimental
Medical, Health Physics. At Jefferson, we have groups of physicists working in various areas of healthcare technologies. - Quantitative imaging techniques and analysis - Neural network based approaches to radiotherapy imaging quality assurance - Small Animal Radiation Research Platform experiments exploring novel treatment modalities - Application of quality improvement methodology in radiation oncology - Evaluation and optimization of clinical brachytherapy practices. - Optimization of new clinical equipment - Knowledge extraction and modeling in radiation therapy - Automatic treatment planning and quality assurance. - Adaptive radiation therapy: plan optimization, quality assurance, and clinical flow design. Doyle, Keller, Li, Mooney.

View additional information about this department at www.gradschoolshopper.com