



Therapeutic Medical Physics Residency Program

Oregon Health & Science University | Department of Radiation Medicine

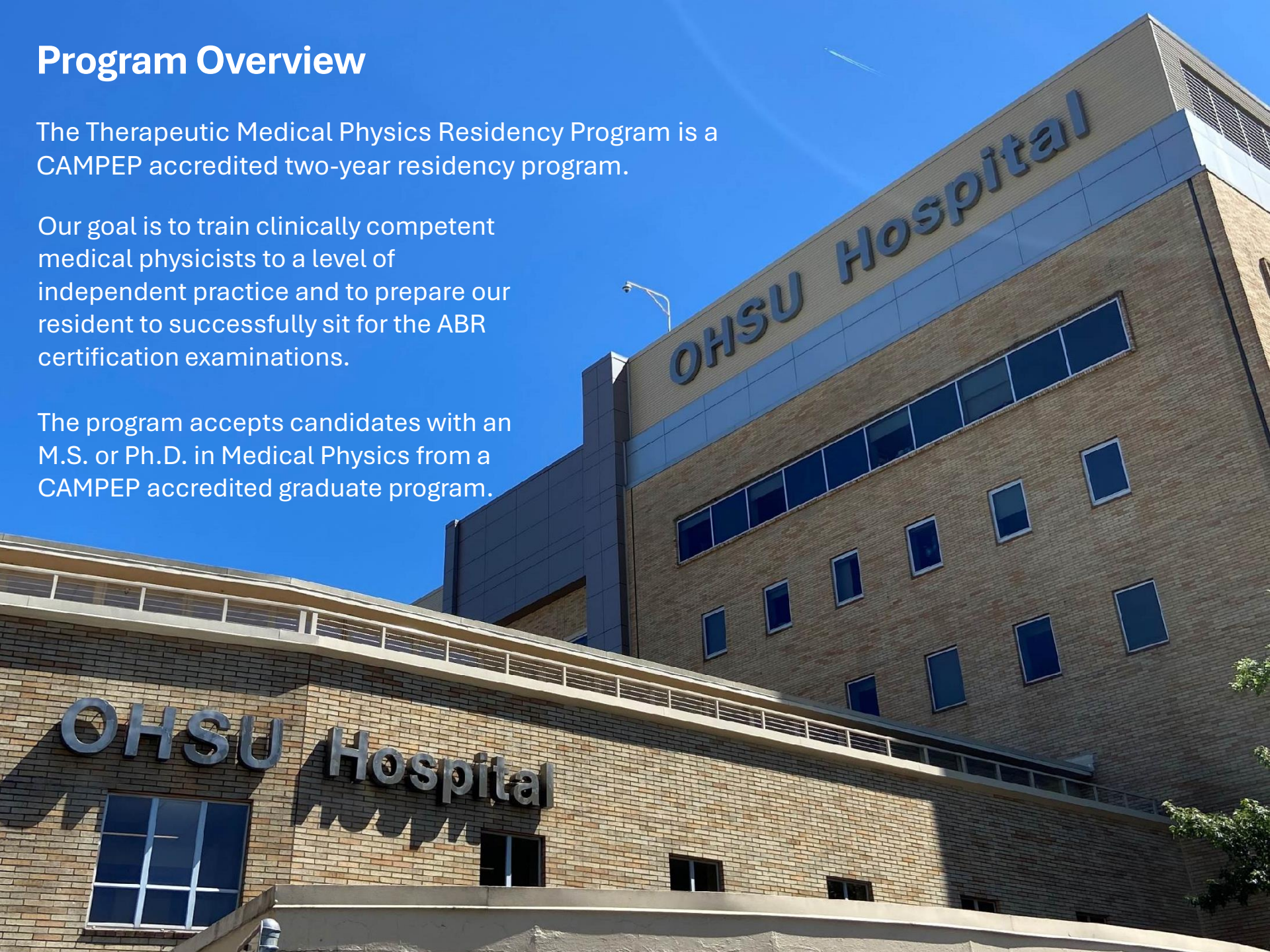
PRESENTED BY: Monica Kishore, MS, Residency Program Director

Program Overview

The Therapeutic Medical Physics Residency Program is a CAMPEP accredited two-year residency program.

Our goal is to train clinically competent medical physicists to a level of independent practice and to prepare our resident to successfully sit for the ABR certification examinations.

The program accepts candidates with an M.S. or Ph.D. in Medical Physics from a CAMPEP accredited graduate program.



About Us

OREGON HEALTH & SCIENCE UNIVERSITY





About Oregon Health & Science University (OHSU)

- OHSU has provided care for uninsured and otherwise underserved people for more than 130 years.
- OHSU is Oregon's only public academic health center.
- OHSU employs 21,300 Oregonians, has 4,130 students enrolled in degree programs, and trains 972 residents and fellows.
- OHSU has over 200 community health programs in rural and urban areas throughout Oregon.
- In 2015, OHSU set a fundraising record by meeting a \$1 billion challenge from Nike co-founder Phil Knight.
- In 2023, OHSU received \$595.9 million in research funding.

Marquam Hill



37 major buildings, including OHSU Hospital, Kohler Pavilion and Doernbecher Children's Hospital

Oregon Health & Science University

Main Campus (Portland, OR)

Five major buildings, including medical school and dental school



South Waterfront



About the Department of Radiation Medicine

- The Department of Radiation Therapy was established in 1967.
- The department occupies **17,000 square feet on the fourth floor of the Kohler Pavilion** (aka the building with the tram).
- The department serves the **entire campus**, as well as our community sites.
- The department supports a variety of educational programs including:
 - radiation oncology residency, accredited in 1970
 - medical physics graduate program, accredited in 2011
 - **medical physics residency program, accredited in 2015**
 - radiation therapy program, accredited in 2017
 - collaborative dosimetry program



The Radiation Medicine Team includes:

26 Radiation Therapists

12 Radiation Oncologists

12 Medical Physicists

11 Radiation Oncology Nurses

9 Dosimetrists

6 Radiation Oncology Residents

2 Medical Physics Residents

3 Medical Assistants



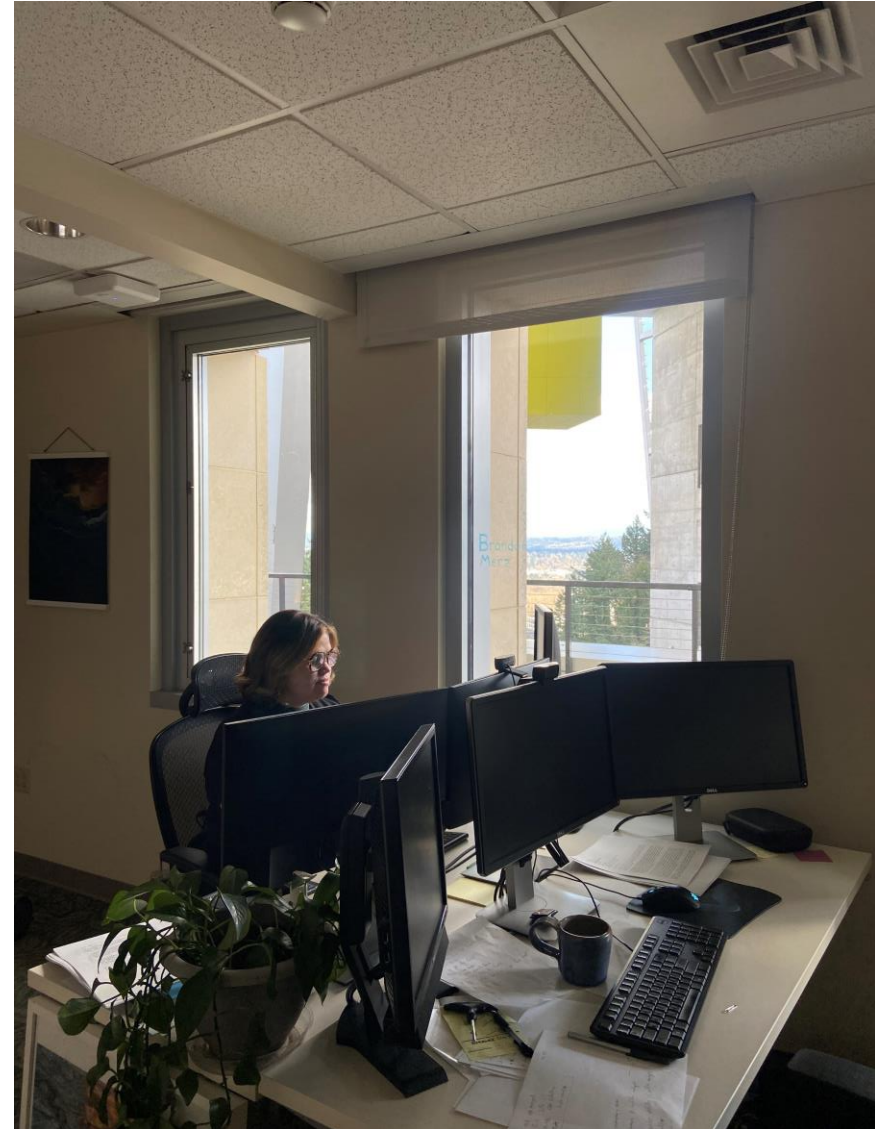
Department Technology

KPV treats on average 80-100 patients per day

At KPV the equipment includes:

- four external-beam treatment rooms
 - 2 Elekta Versa HD
 - 1 Varian TrueBeam (Linac-based SRS)
 - 1 Tomotherapy HD (HDR Brachytherapy, and LDR Eye Plaque Program)
- Treatment planning systems includes:
 - Eclipse, Oncentra, Brainlab Elements, Tomotherapy, and MIM
- Multiple treatment planning systems with plenty of WACOM contouring tablets
- Active cardiac SBRT program
- Choroidal melanoma brachytherapy and NWs only total skin electron beam therapy program

The Department: WINDOWS!



The Department: WINDOWS!



Training Structure



Rotations

- The program is structured into 16 rotations divided over two years of training. 50% of rotations are **core rotations**. Specialty rotations, primarily in Year 2, overlap with core rotations.
- The rotation length is intended to provide a guideline to residents and is not an absolute timeframe exclusive of other rotations.
- During rotations, preceptors are expected to meet with residents weekly.
- Residents have formal meetings with the program director during each rotation. During these meetings, residents share updates on their progress and any concerns or suggestions regarding the rotation.
- Residents maintain daily logs of educational and clinical work.

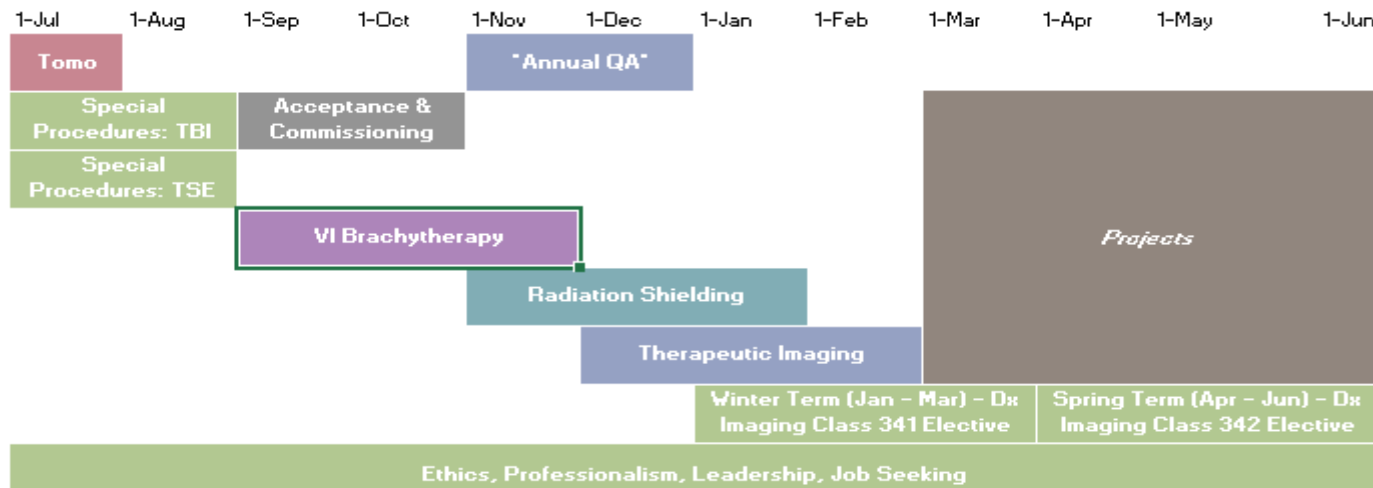


Resident Rotation Schedule

Resident Rotation Schedule Year 1









Resident Rotation Schedule Year 2



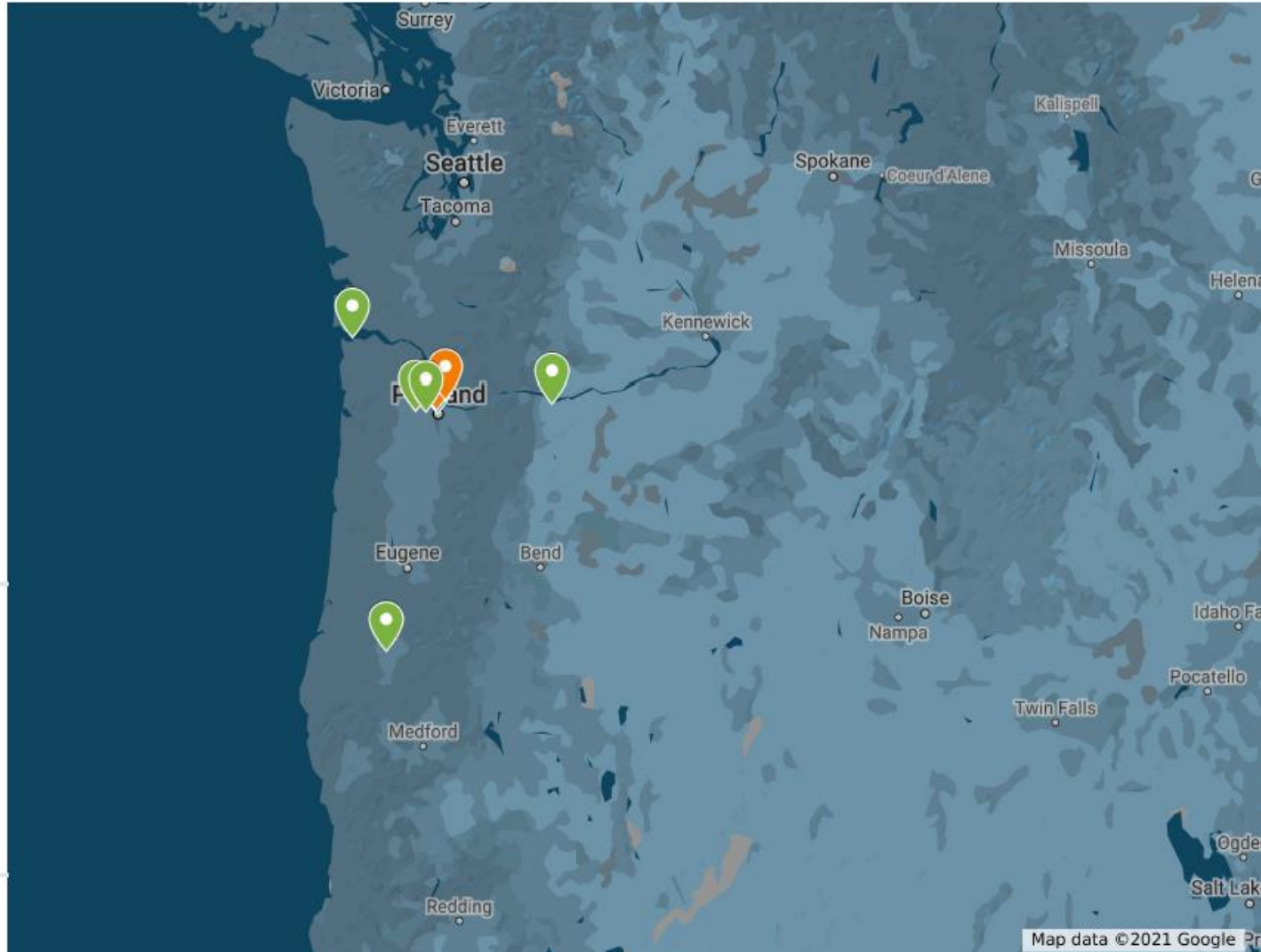
Locations of Partner Sites and Rotation Sites

OHSU Partner Sites

-  OHSU Hospital
-  Tuality/OHSU Cancer Center
-  Columbia Memorial Hospital (Astoria)
-  Community Cancer Center (Roseburg)
-  Mid-Columbia Medical Center (The Dalles)
-  OHSU Knight Cancer Institute Clinic, Beaverton

Additional Rotation Sites

-  Legacy Good Samaritan Medical Center
-  PeaceHealth Southwest Medical Center



Didactics

Residents are provided protected time, in clinic and away from clinic, for didactics.



- Residents are **required** to attend and participate in:
 - Physics Didactics
 - Patient Rounds (Chart Rounds)
 - Physics Journal Club
 - Radiation Biology Course
 - Image verification workshop
 - Patient education workshop
- Residents are **encouraged** to attend:
 - Medical Residency Didactics
 - Tumor Boards
 - Graduate Medical Physics Journal Club
 - Graduate Medical Physics Advanced Imaging Course
- Residents are required to instruct in a lecture or practicum setting to the graduate students and medical residents.

Clinical Responsibilities

Year 1

- Treatment Planning with dosimetrist oversight (3D, eventually SRT)
- Plan Checks with physics oversight
- Machine QA with physics oversight

Year 2

- Physicist of the Day (POD)
- Physicist Initial Chart Checker (PIC)
- Machine QA



Resident Salary and Benefits



Resident Salary

Incoming residents are salaried at the PGY1 salary set by OHSU's House Officer Union and OHSU GME

- FY26 Salary: \$73,681

Employee Benefits

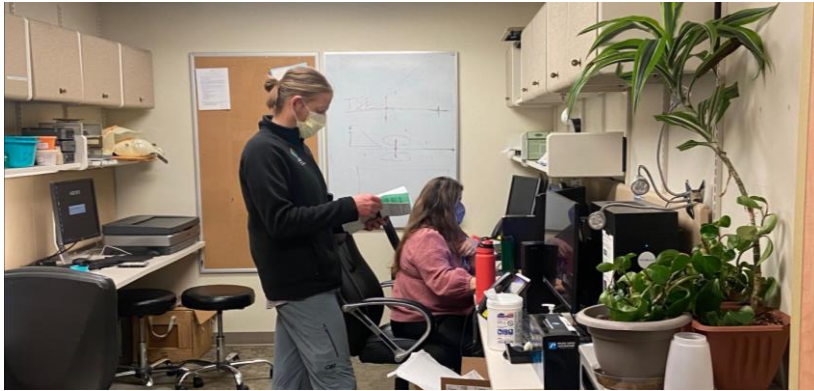
- Medical, Dental, Vision and Life Insurance, Retirement plan starting on day one of training
- Paid Time Off
 - Up to 26 days of vacation per year
 - Up to 12 days of sick leave per year
 - 9 paid holidays
- Discounted parking
- Staff discounts
- Childcare resources
- Wellness resources and programs

Program Benefits

- Educational Budget
- Educational Travel
 - one national and up to four local meetings

Learn more: <https://www.ohsu.edu/human-resources/employee-benefits>

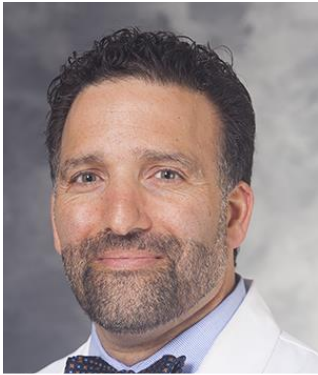
Resident Room



Faculty



Faculty



John Bayouth, Ph.D.
Chief Medical Physicist



Monica Kishore, M.S.
Program Director



Stephanie Junell, Ph.D.
Associate Program Director



Amanda Swanson, M.S.



Ana Dieguez LeBlanc, M.S.



Andrei Pugachev, Ph.D.



Brandon Merz, M.S.



Byron Wilson, Ph.D.



Christopher Aguilera, M.S..

Faculty



Erika Kollitz, Ph.D.



Joe Foy, Ph.D.



Junan Zhang, Ph.D.



Malcolm Heard, Ph.D.

Application Process



Application Process

The program participates in the MedPhys Match and will begin accepting applications on October 8, 2024, via MP-RAP. Applications are due by December 1, 2024.

- Submit a completed application via MP-RAP
- **Send a letter of interest to RadMedEd@ohsu.edu ****REQUIRED******
- Register for the MedPhys Match





2024-2025 INTERVIEWS

During the 2024-2025 recruitment cycle the program will participate in two-part, hybrid interviews.

Virtual interviews in late January 2025, followed by in person interviews at OHSU in early March 2025.

Applicants will be ranked within the 2025 MedPhys Match.

Questions?

RadMedEd@ohsu.edu





2023-2024 Department of Radiation Medicine Residents