



# Therapeutic Medical Physics Residency Program

Oregon Health & Science University | Department of Radiation Medicine

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PRESENTED BY: Monica Kishore, MS, Residency Program Director

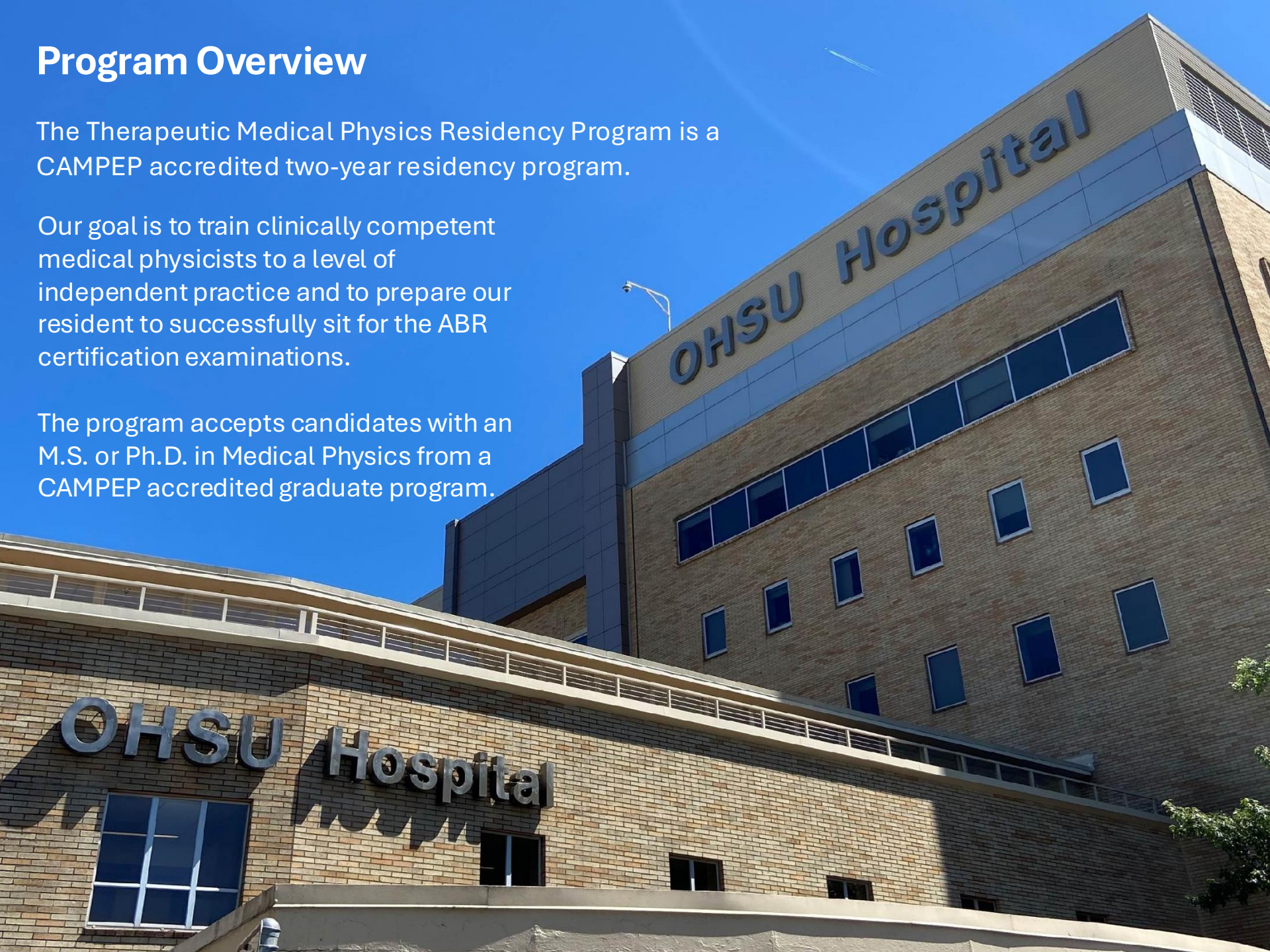


# Program Overview

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 is Oregon's only public academic health center.
- OHSU occupies more than 9.2 million square feet on about 400 acres, including leased spaces beyond our campuses.
- OHSU has provided care for uninsured and otherwise underserved people for more than 130 years.
- OHSU employs 21,016 Oregonians, has 5,738 students enrolled in degree programs, and trains 984 residents and fellows.
- OHSU provides more than 200 community health programs in rural and urban areas throughout Oregon.
- **Phil and Penny Knight donated a record-breaking \$2 billion to the OHSU's Knight Cancer Institute in August 2025.**

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



## Welcoming Dr. Howard Sandler to OHSU



Dr. Howard Sandler will join OHSU on January 1, 2026 as chair of the Department of Radiation Medicine and associate director for radiation medicine in the Knight Cancer Institute.



## 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



## Our Radiation Medicine Team includes:

24 Radiation Therapists

**13 Medical Physicists**

11 Radiation Oncologists

11 Radiation Oncology Nurses

9 Dosimetrists

6 Radiation Oncology Residents

3 Medical Assistants

**2 Medical Physics Residents**





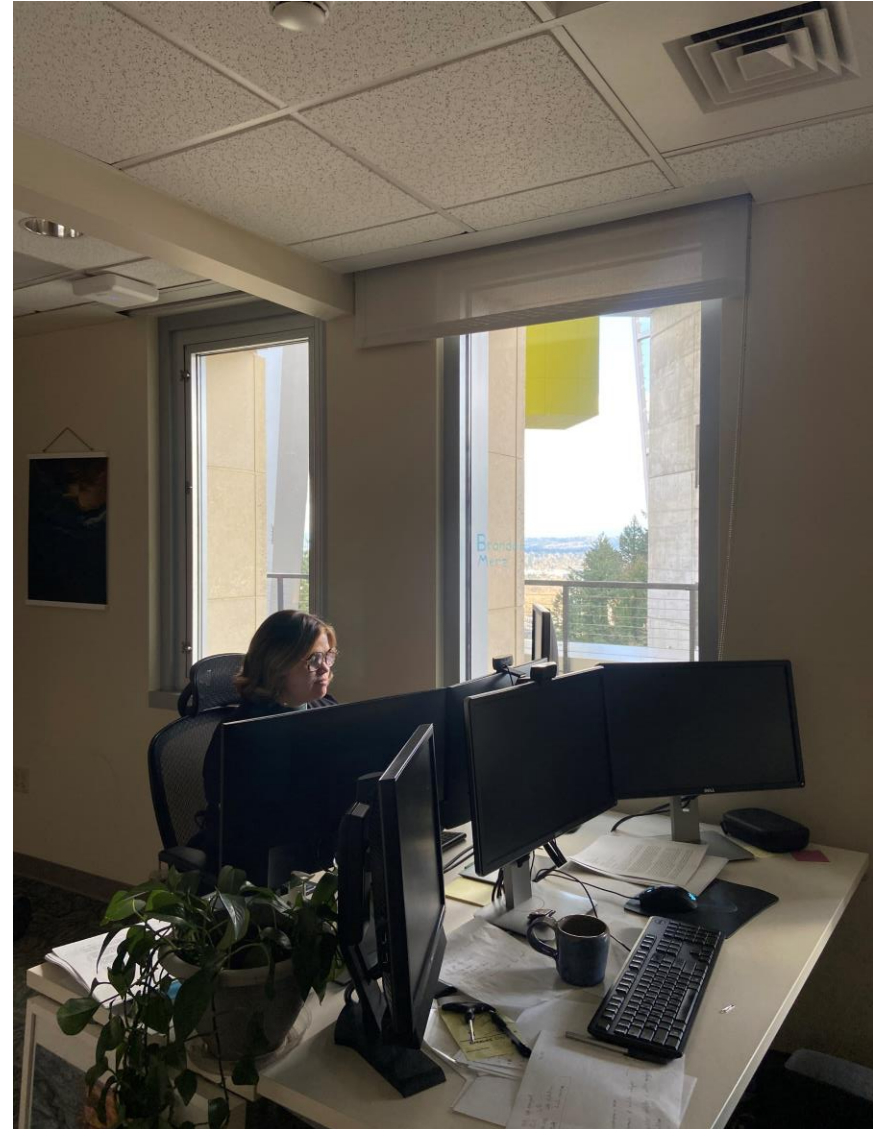
## Department Technology

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)
  - HDR Brachytherapy
- Treatment planning systems includes:
  - Eclipse, Oncentra, Brainlab Elements, and MIM
- Active cardiac ablation program
- Total Body
- Choroidal melanoma LDR brachytherapy, GYN HDR
- Northwest's only total skin electron beam therapy program
- Multiple treatment planning systems with plenty of WACOM contouring tablets

The Department: We have **WINDOWS!**



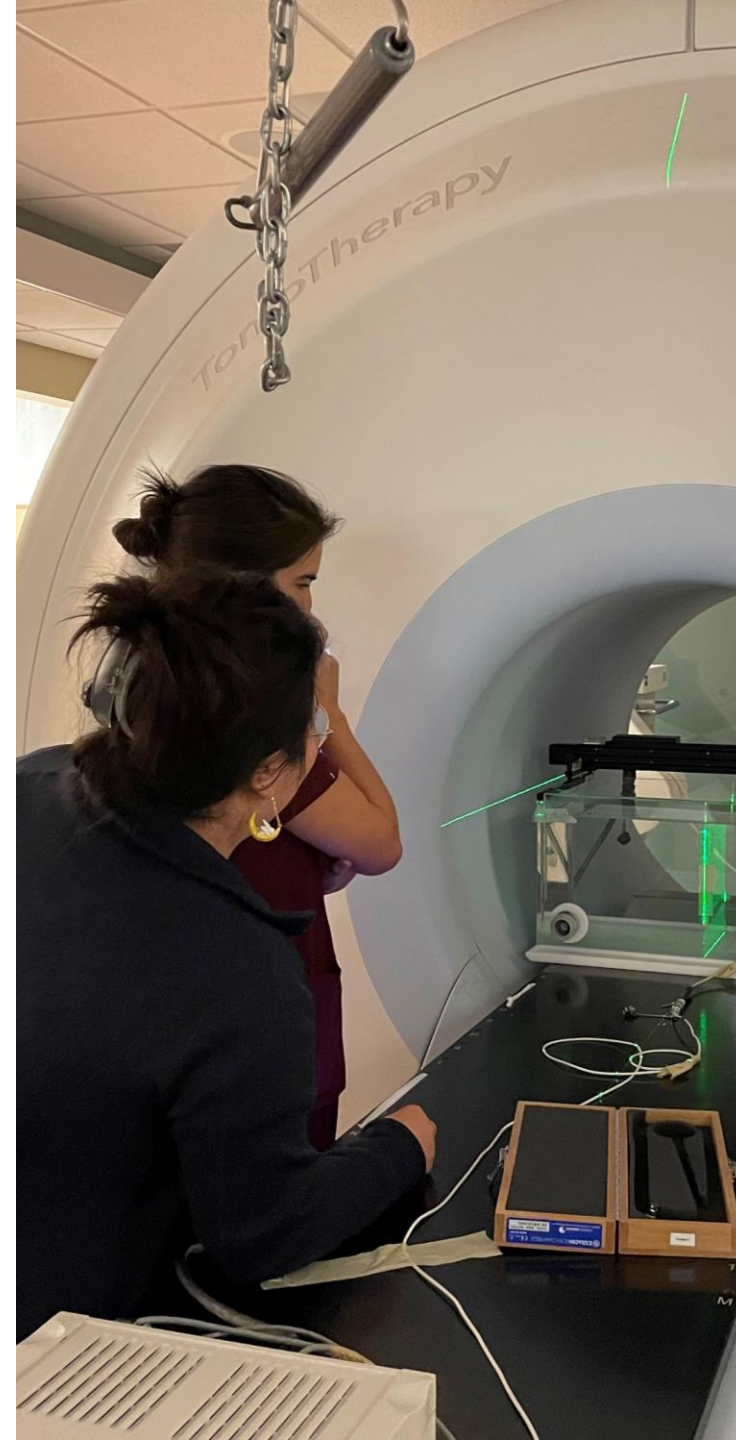


# Training Structure



# Rotations

- The program is structured into 12 rotations divided over two years of training. Six rotations are **core rotations**. Secondary rotations 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

1-Jul	1-Aug	1-Sep	1-Oct	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
1. Dosimetry				2. Quality Assurance and Plan Review				3. SRS/SBRT			
7. Radiation Safety				2a. *Annual QA*		8. Informatics		9. Special Procedures: TBI			
				Bootcamp		Winter Term (Jan - Mar) - Dx Imaging Class 341 Elective			Spring Term (Apr - Jun) - Dx Imaging Class 342 Elective		
Ethics, Professionalism, Leadership, Job Seeking											

## Resident Rotation Schedule Year 2

1-Jul	1-Aug	1-Sep	1-Oct	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
4. Brachytherapy			5. Radiation Shielding			6. Therapeutic Imaging					
10. Special Procedures: TSE		11. Acceptance & Commissioning		2a. Annual QA*		12. Protons			Projects		
						Winter Term (Jan - Mar) - Dx Imaging Class 341 Elective			Spring Term (Apr - Jun) - Dx Imaging Class 342 Elective		
Ethics, Professionalism, Leadership, Job Seeking											

### LEGEND

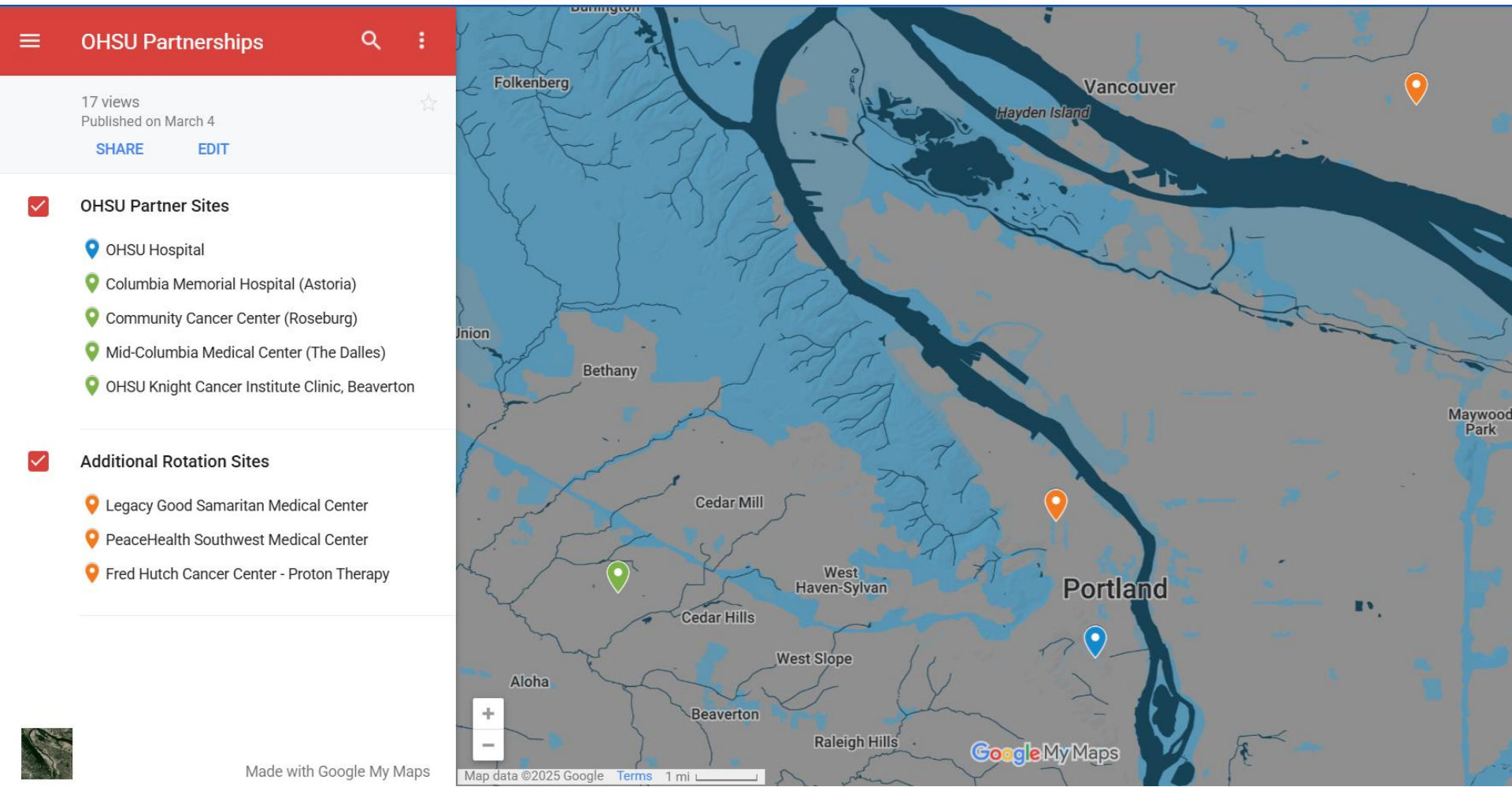
CORE  
ROTATION

SECONDARY  
ROTATION

DIDACTICS

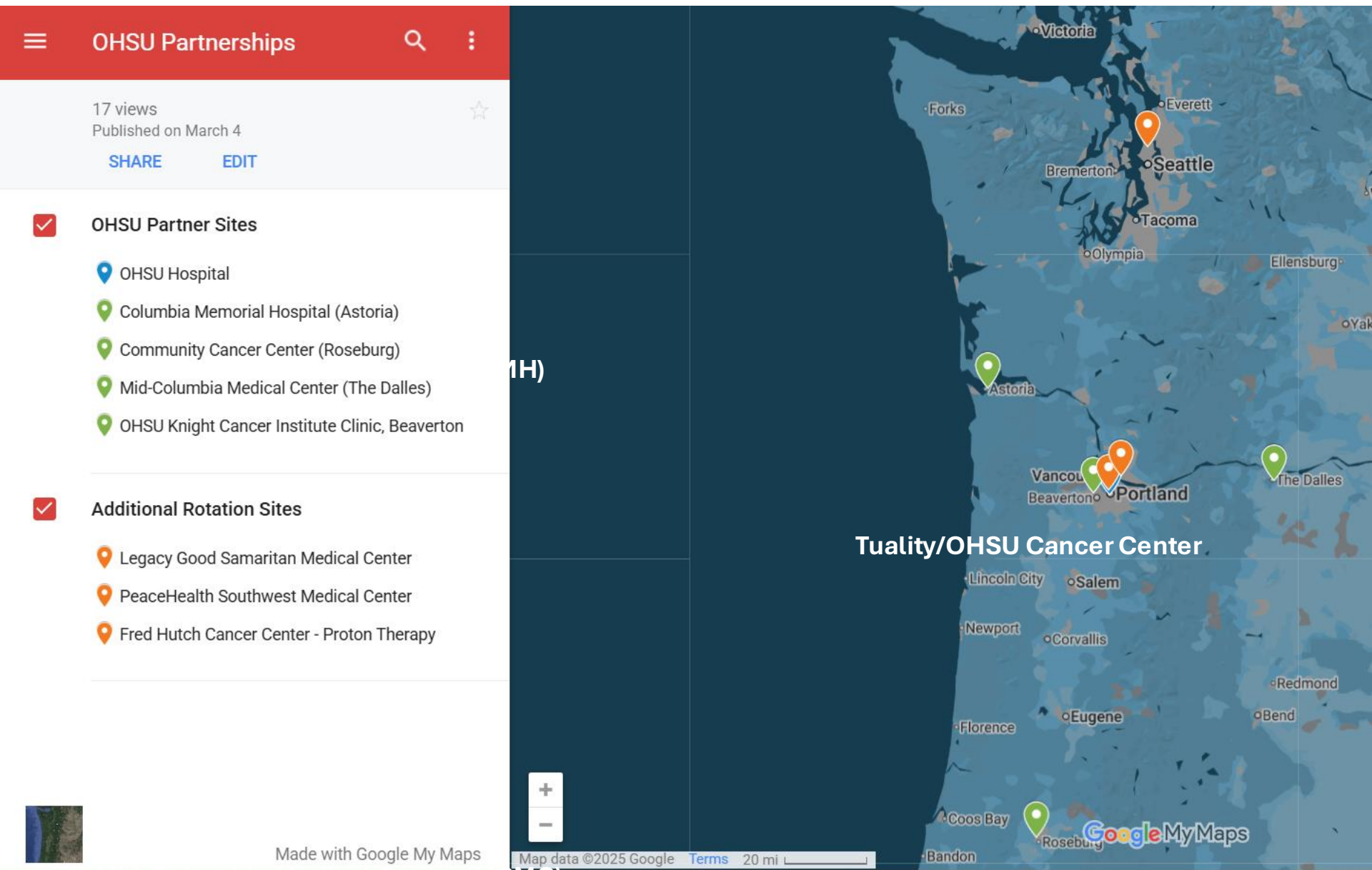
OPTIONAL  
DIDACTICS

# Locations of Partner Sites and Rotation Sites





# Locations of Partner Sites and Rotation Sites



# 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
  - Multi-Institutional Journal Club
- 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

2026-2027 salary is **\$72,344** for incoming residents with an M.S. and **\$79,382** for incoming residents with a Ph.D.

## Employee Benefits

- Medical, Dental, Vision and Life Insurance, Retirement plans
- 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, up to four local meetings and optional summer school**

## Physics Assistants

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



# Resident Room

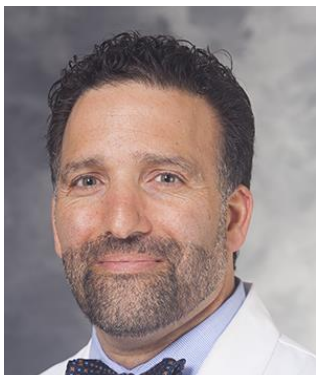


# Faculty





# Faculty



**John Bayouth, Ph.D.**  
**Chief Medical Physicist**



**Monica Kishore, M.S.**  
**Program Director**



**Ana Dieguez LeBlanc, M.S.**



**Amanda Swanson, M.S.**



**Andrei Pugachev, Ph.D.**



**Brandon Merz, M.S.**



**Byron Wilson, Ph.D.**



**Christopher Aguilera, M.S.**

**Don Roberts, Ph.D.**

# Faculty



**Erika Kollitz, Ph.D.**



**Joe Foy, Ph.D.**



**Junan Zhang, Ph.D.**



**Stephanie Junell, Ph.D.**



# Application Process



# Application Process

The program participates in the MedPhys Match and will begin accepting applications on October 7, 2025, via MedPhys Match Application Service. Applications are due by December 1, 2025.

- Register for the 2026 MedPhys Match
- Submit a completed application via MedPhys Match Application Service
- **Send a letter of interest to [RadMedEd@ohsu.edu](mailto:RadMedEd@ohsu.edu) \*\*REQUIRED\*\***







# **2025-2026 INTERVIEWS**

**During the 2025-2026 recruitment cycle the program will participate in two-part, hybrid interviews.**

**Virtual interviews in late January 2026, followed by in person interviews at OHSU in early March 2026.**

**Applicants will be ranked within the 2026 MedPhys Match.**

# Questions?







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Portland yesterday: