**ENVIRONMENTAL HEALTH & SAFETY** UNIVERSITY of WASHINGTON

Application for Authorization to Use Radioa	active Materials	Office Use	Only
		Permit #	
1. Principal Investigator Information			
Name	Title/Position		
Department	E-mail		
UW Box #	Office Phone #		
Lab Phone #	Cell Phone #		
<b>2. Laboratory Contact</b> Must be knowledgeable about the proposed research. Will act as the	primary contact with Ra	diation Safe	ty.
Name	Title/Position		
E-mail	Office Phone #		
	Cell Phone #		
<b>3. Laboratory Registration</b> An Application for Certification of Laboratory for Radioactive Materia			
			ch lab. h Lab, Equipment Room, etc)
An Application for Certification of Laboratory for Radioactive Materia	Generic Lab Type (	e.g., Researc	h Lab, Equipment Room, etc)
An Application for Certification of Laboratory for Radioactive Materia Building and Room Number	Generic Lab Type (	e.g., Researc	h Lab, Equipment Room, etc)
An Application for Certification of Laboratory for Radioactive Materia Building and Room Number	Generic Lab Type (	e.g., Researc	h Lab, Equipment Room, etc)

#### 5. Unsealed Radioactive Materials to by Used

Attach procedures, including waste handling, for each planned experiment. Additional nuclides can be added later if needed.

Radionuclide	Chemical & Physical Form (e.g., Nal, liquid)	Activity per Order (mCi)	Activity per Experiment	Number of Experiments per Month
<b>5. Use of Unsealed Radio</b> Provide a 1-2 sentence "ex	active Material Accutive summary" of the intended us	e of each radionuclide.		
Radionuclide	Description			
	_			

### 7. Uranium and Thorium Compounds

Attach procedures, including waste handling, for each planned experiment. Additional nuclides can be added later if needed.

ltem	Radionuclide	Chemical & Physical Form (e.g., Uranyl Acetate, powder)	' Maximum Mass on hand (g)	Mass used per Experiment (g)	Number of Experiments per Month
1					
2					
3					

#### 8. Use of Uranium and Thorium Compounds

Provide a 1-2 sentence "executive summary" of the intended use of each Uranium or Thorium Compound.

Radionuclide	Description

#### 9. Radioactive Sealed Sources

Attach procedures, including security and shielding, for each source in planned experiments. Additional sources can be added later if needed. Attach additional pages for greater than four sources.

Source	Radionuclide	Make/Model	Activity (mCi)	Serial Number	Storage Location
1					
2					
3					
4					

#### **10. Use of Sealed Sources**

Provide a 1-2 sentence "executive summary" of the intended use of each source.

Source	Radionuclide	Description
1 _		
2		
3		
4 _		

#### **11. Radiation Detection Instruments**

Attach a Radiation Detection Instrument Registration Form (Form 51) for each instrument.

Manufacturer	Model	Location (Building and Room)

#### 12. Radiation Producing Devices and Non Ionizing Radiation Devices

Does your work/lab involve other radiation hazards such as radiation-producing devices and/or non-ionizing radiation devices?

Radiation-producing device (x-ray for radiography, PET/CT imaging, X-ray irradiator, diffraction spectroscopy, fluorescence units, particle
accelerators, etc.). Complete and attached a <u>radiation-producing device registration form.</u>

Laser (Any Class 3B or Class 4 laser system including microscopy station, loaner from manufacturer, demo units and inactivenits/storage)
Complete and attach a Laser Registration Form.

RF producing devices (diathermy medical device, broadcasting radio and TV antenna, cell antennas, radar, etc.)

Ultraviolet (UV) light

MRI, NMR, industrial electrolysis, welding devices, etc.

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#### 13. Animal Use Information

Please complete the section below only if your radioisotope work involved the use of animals.

Title(s) of Research Project(s):					
IACUC Protocol Number(s):	<u> </u>				
Contact Person:			Phone Number:		
Email:					
Please complete the tables a	nd answer the	associated questions			
Species	Average We	eight of Animal (kg)	Number of Animals/Experi		Number of Experiments per Year
Radioisotope and Chem Forms(s)		ctivity (mCi/Kg)	Route of Administration	Frequency of Administratior	
Radioisotope Lab Lo	ocations		tion Type (Research Are		
Building	Room				, waste storage,
Will Radioactive material be Will the animal(s) be euthan	•		○Yes ○No ○Yes ○No		
Please describe the arranger for care and contamination of					
Please describe shielding an measures for workers/anima					
Please describe the waste st disposal procedures for excr bedding, cages and animal t	etions,				
Please describe any special of such as laminar flow hoods cages:					

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#### 14. Responsibilities

A check in each box signifies that you agree to the following requirements. Click on the hyperlinks for more information.

- Applicant has read and agrees to the policies set forth in the UW <u>Radiation Safety Manual</u>.
- Applicant will pay all charges and follow current UW policies associated with <u>radioactive waste disposal</u>.
- Applicant will maintain an up-to-date inventory of all radioactive materials and return Inventory Verification Letters within the specified time frame. Radiation Safety may conduct inventory audits.
- Applicant will maintain an up-to-date Radiation Use Authorization. Radiation Safety may conduct authorization audits.
- Applicant will complete the Radioactive Material Usage Record to document all waste disposals.
- Applicant will notify Radiation Safety of any transfers of radioactive material.
- Applicant will enroll the thyroid bioassay program if using 1 mCi or greater of radioiodine.
- Applicant will enroll the tritium bioassay program if using 100 mCi or greater of tritium.
- Applicant will establish a <u>survey program</u> appropriate to the type of RAM use in the lab. Monthly and after-use surveys must be documented. If no material was used in a given month, a statement such as "no use" will be recorded for the survey.
- Applicant will follow established procedures for <u>ordering radioactive materials</u>. All orders will be shipped to the Radiation
  Safety Shipping and Receiving Office in the Health Sciences Building Room T274. Any deviation from these procedures requires permission from Radiation Safety.
- Applicant will submit procedures, including waste handling, for the use of RAM listed in Items 5, 7 and 9. Applicant agrees to send significant procedure updates to Radiation Safety as they are available.
- Applicant will establish security for all radioactive materials, including waste. Personnel responsible for lock-up must be designated.
- Applicant will provide all personnel with training in the health protection considerations commensurate with working in the laboratory. All personnel are required to take the UW <u>Radiation Safety Training Class</u>, or other appropriate specialized radiation safety training, within 90 days of beginning work.

For irradiator users only:

Applicant understands that all individuals requiring unescorted access to the device must first complete the University's access authorization process to be deemed trustworthy and reliable.

#### 15. Certification

The applicant accepts full responsibility for the safe use of radioactive material, will conform to the Rules and Regulations for Radiation Protection (WAC 246), conditions of the UW's license to use radioactive materials, conditions specified in this authorization, and UW Radiation Safety policies. The applicant has reviewed the proposed uses with her/her department chair.

Applicant's Signature	Date	
16. Reviewed by Health Physicist	○ Approve	O Disapprove
Health Physicist, Reviewer	Date	

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