

**UNIVERSITY OF PITTSBURGH**  
**"APPLICATION FOR AUTHORIZATION FOR NON-HUMAN USES OF**  
**RADIONUCLIDES"**  
**Form RSO - 313 10/07**

- New Application ("**Attachment A**" (Training Summary) must be completed)
- Renewal

The form must be typed or printed plainly. Send one completed form to the Radiation Safety Office, G7 Parran Hall, University of Pittsburgh. If an amendment to a current authorization is being requested, use Form RSO-313A. Retain a copy for your records.

If radionuclides are to be administered to humans, please contact the Radiation Safety Office for more information.

**1. APPLICANT IDENTIFICATION**

Name: \_\_\_\_\_ Degree: \_\_\_\_\_

Department: \_\_\_\_\_ Faculty Position: \_\_\_\_\_

Office Location: Room \_\_\_\_\_ Building: \_\_\_\_\_

Office Phone: \_\_\_\_\_ Home Phone: (\_\_\_\_) \_\_\_\_\_

Email Address: \_\_\_\_\_

Lab Phone: \_\_\_\_\_ Radioactive Materials  
 Delivery Location: \_\_\_\_\_

**2. RADIATION WORKER IDENTIFICATION**

List the names of all other individuals (faculty, staff, students, etc.) who will work with radionuclides in your laboratories. Identify a primary contact person(s), in addition to yourself, for radiation safety concerns in the laboratory (Note with \* in front of name and list the phone number).

NAME	POSITION	RSO USE ONLY	
		TRAINING DATE	DOSIMETRY ASSIGNED



## 5. USES

For each radionuclide requested in item 4 above, describe how it will be used, listing the estimated quantity of radionuclides to be used per experiment. Note any unique hazards such as high volatility, chemical reactivity or infectiousness and how they will be controlled. (Attach an additional sheet if necessary.)

---



---



---



---



---



---



---



---



---



---

- a) Will radionuclides be administered to animals?  yes  no  
 If yes, please complete and attach Form RSO - AN1 for each different study

## 6. RADIATION DETECTION & MEASUREMENT INSTRUMENTATION

List all portable survey instruments and  $\beta$ - $\gamma$  counting equipment

Instrument Type	Manufacturer	Model Number	Serial Number	Detector Type*

**\*Portable Instruments Only**

## 7. RADIONUCLIDE USE AND WASTE PROJECTION

Complete the table below, projecting your average purchase/use of radionuclides for the next four quarters.

Radionuclide	Projected Amount Used per Quarter (mCi) *	Historical Amount Used Per Quarter **		Percent of Radionuclide Disposed in Waste Forms				
		<b>(RSO USE ONLY)</b>		Solid	Sink Disposal Soluble/dispersible liquids (See 7a)	Liquid Absorbed or Solidified	Scintillation Vials	Animal Carcasses/Tissues
		Purchased	Waste					

\* Amount Used per quarter - Average activity ordered per calendar quarter in millicuries.

\*\* Historical is average of past 4 quarters.

### 7a. INFORMATION REQUIRED FOR SINK DISPOSAL

By regulation, all radioactive materials disposed of to the sanitary sewer system must be soluble in water or biologically dispersible. List all liquid radioactive waste chemicals and compounds which are not soluble in water or biologically dispersible.

---



---

### 7b. IDENTIFICATION OF HAZARDOUS COMPONENTS IN WASTE

Identify any radioactive wastes which also contain infectious or pathogenic agents or a hazardous chemical. List the agent/radionuclide and indicate the volume/quantity of each such waste that you may generate per quarter.

---



---



---



---

## 8. PERSONNEL TRAINING

Title 10, Part 19, Section 19.12 of the Code of Federal Regulations requires that all personnel working with sources of ionizing radiation be trained in the procedures and precautions necessary to minimize radiation exposure.

The Radiation Safety Office provides a general lecture and demonstration session for training personnel in the safe use of radioisotopes. The University requires that individuals requesting authorization to use sources of ionizing radiation, as well as all persons who will work under this authorization, attend this session before approval can be granted.

The Authorized User is responsible for providing additional training and instruction in safe radiation practices, specific to the type of work being performed, to all personnel working under the authorization.

## 9. CONDITIONS WHICH MUST BE MET BY THE AUTHORIZED USER

- a) Current copies of the Radiation Safety Committee policy manual and the Radiation Safety Training Manual have been received with this application form. The Authorized User agrees to abide by the letter and spirit of all applicable regulations as set forth therein. These include (but are not limited to) training of workers, providing for security of radioactive materials, inventory record keeping, reporting of spills, proper transfer of radioactive materials, laboratory surveys, proper waste disposal, and RSO pre-approval of orders/receipts.
  
- b) The Authorized User is responsible for notifying the Radiation Safety Office of any changes in this application, such as changes in personnel, laboratory location, laboratory renovations, radionuclide usage, etc.

### Special Conditions Applicable to this Authorization (RSO USE ONLY)

---

---

---

---

---

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### 10. REVIEW AND APPROVAL

A representative of the Radiation Safety Office has met with the applicant to review this application and has discussed the radiation protection requirements necessary for use of the radionuclides listed under Item 5. As part of this evaluation, the Radiation Safety Office representative has made a physical inspection of all proposed radionuclide laboratories.

RSO Representative: \_\_\_\_\_

Date: \_\_\_\_\_

Review by Health Physicist: \_\_\_\_\_

Review by the Executive Committee of the University's Radiation Safety Committee:

Signature

Date

Chairperson: \_\_\_\_\_

Vice Chairperson: \_\_\_\_\_

Radiation Safety Officer: \_\_\_\_\_

Management Representative: \_\_\_\_\_

This application, signed by the Executive Committee, is your authorization to possess and use radioactive materials as indicated.

Date of Approval \_\_\_\_\_

Date of Expiration \_\_\_\_\_

**APPLICANT'S TRAINING AND EXPERIENCE WITH RADIONUCLIDES:**

This page is to be completed by new applicants only.  
It is not necessary for renewal purposes.

The University NRC license requires applicants to have at least 40 hours of training and experience in the safe handling of radioactive materials, characteristics of ionizing radiation, units of radiation dose and quantities, radiation detection instrumentation, and biological hazards of exposure to radiation appropriate to the type and forms of radioactive material to be used.

**Didactic Training**

List any formal courses or lectures attended. List all training sessions in radiation protection & safety from previous institutions

Institution, Years (e.g., Yale Univ, 2000-2002)	Course, Lecture or Laboratory, approx hours in duration (e.g., Radiation safety lecture, 3 hours)

**Practical Experience with Radionuclides**

Radionuclide	Institution and dates	Type of procedure, mCi used at one time	Estimate of total hours of use

Were you a principal investigator at a previous institution?  Yes  No  
If yes, list name of institution, time period, number of personnel in lab, name of current RSO.

---

If no, for most recent institution list name of lab PI, your position.

---