DOE NEPA Tracking Number

U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)
ENVIRONMENTAL EVALUATION NOTIFICATION

To be completed by "Applicant," i.e., organization with responsibilities for a "Federal action" involving application to DOE for a permit, license, exemption or allocation, or other similar actions. For assistance, refer to "Instructions for Preparing Environmental Evaluation Notification."

Solicitation/Award No. (if applicable): DE-SC0025938

Organization Name: UNIVERSITY OF MISSOURI SYSTEM

Proposed Action Title: Radioisotope Science Center at the University of Missouri - Columbia

Total DOE Funding/Total Funding: $20,000,000.00

I. Project Description: ***(Use explanation pages if additional space is required)***

A. Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded portions)

The proposed Radioisotope Science Center (RSC) at the University of Missouri is a strategic initiative that directly supports the DOE Isotope Program's mission to advance isotope R&D. It involves the construction of a building at the University of Missouri and the installation of equipment.

All construction expenses related to the building of the RSC will be paid for by the University of Missouri through an appropriation from the state of Missouri.

Department of Energy funds will be used for the purchase and installation of equipment, including the purchase of hot cells, and the interior build-out. No Department of Energy funds will be used for the construction of the building.
*see additional explanation

	Yes	No
B. Would the project proceed without Federal funding?	☐	☑

If "yes," use explanation page.

II. Description of Affected Environment: ***(Use explanation pages if additional space is required)***

Environmental impacts will be minimal. The funds will be used for equipment and to build-out the interior of the building. The interior will be divided between offices, hot cell production, research and development, and receiving and shipping spaces.

Location:
University of Missouri Discovery Ridge Research Park
Discovery Drive, Lot 7
Columbia, MO 65211

*see additional explanation

III. Preliminary Questions:

		Yes	No
A.	Is the DOE-funded work routinely administrative or *entirely* advisory or a "paper study?"	☐	☑

If "Yes", ensure that the description in Section I reflects this and go directly to Section V.

B. Is there any potential whatsoever for: (***Provide an explanation for each "Yes" response)***

1.	Work to be performed outdoors?	☐	☑
2.	Major modification of a building facade or interior?	☐	☑
3.	Threat of violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health?	☐	☑
4.	Siting, construction or major expansion of waste treatment, storage, or disposal facilities?	☐	☑
5.	Disturbance to hazardous substances, pollutants, or contaminants preexisting in the environment?	☐	☑
6.	The presence of any environmentally-sensitive resources?	☐	☑
7.	Any potential whatsoever for high consequence impacts to human health or the environment?	☑	☐
8.	The work being connected to another existing/proposed activity that could potentially create a significant impact?	☐	☑
9.	Nearby past, present, and/or reasonably foreseeable future actions such that collectively significant impacts could result?	☐	☑
10.	Scientific or public controversy, uncertainty over potential impacts, or conflicts regarding resource usage?	☐	☑

If "No" to ALL Section III.B. questions, go directly to Section V.

IV. Potential Environmental Effects: (***Provide an explanation for each "Yes" response)***

A. Environmentally Sensitive Resources: Could the proposed action potentially result in changes and/or disturbances to any of the following resources?

		Yes	No
1.	Threatened/Endangered Species and/or Critical Habitats	☐	☑
2.	Other Protected Species (e.g., Burros, Migratory Birds, Pollinators)	☐	☑
3.	Tundra, Coral Reefs, or Rain Forests	☐	☑
4.	Cultural or Historic Resources	☐	☑
5.	Important Farmland	☐	☑
6.	Non-Attainment Areas for Ambient Air Quality Standards	☐	☑
7.	Class I Air Quality Control Region	☐	☑
8.	Special Sources of Groundwater (e.g., Sole Source Aquifer)	☐	☑
9.	Navigable Air Space	☐	☑
10.	Coastal Zones	☐	☑
11.	Areas with Special National Designation (e.g. National Forests, Parks, Trails)	☐	☑
12.	Floodplains and/or Wetlands	☐	☑

B. Regulated Substances/Activities: Would the proposed action involve any of the following regulated Items or activities?

13.	Natural Resource Damage Assessments	☐	☑
14.	Invasive Species or Exotic Organisms	☐	☑
15.	Noxious Weeds	☐	☑
16.	Clearing or Excavation greater than one acre or Removal of Trees Governed by Local Requirement	☐	☑
17.	Dredge or Fill (under Clean Water Act, Section 404, greater than one acre)	☐	☑

B. Regulated Substances/Activities: Would the proposed action involve any of the following regulated Items or activities? (*continued*)

		Yes	No
18.	Noise (in excess of regulations)	☑	☐
19.	Asbestos Removal	☐	☑
20.	Polychlorinated biphenyls (PCBs)	☐	☑
21.	Import, Manufacture, or Processing of Toxic Substances	☐	☑
22.	Chemical Storage/Use Including Emerging Chemicals (e.g., PFAS)	☐	☑
23.	Pesticide Use	☐	☑
24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions	☐	☑
25.	Liquid Effluents	☐	☑
26.	Spill Prevention/Surface Water Protection	☐	☑
27.	Underground Injection	☐	☑
28.	Hazardous Waste	☐	☑
29.	Underground Storage Tanks	☐	☑
30.	Radioactive or Radioactive Mixed Waste	☐	☑
31.	Radiation Exposure	☐	☑
32.	Nanoscale Materials	☐	☑
33.	Genetically Engineered Microorganisms/Plants or Synthetic Biology	☐	☑
34.	Ozone Depleting Substances	☐	☑
35.	Off-Road Vehicles	☐	☑
36.	Biosafety Level 3-4 Laboratory	☐	☑
37.	Research on Human Subjects or other Vertebrate Animals	☐	☑
38.	Facility footprint exceeds 5,000 Square Feet	☑	☐

C. Other Relevant Information: Would the proposed action involve the following?

		Yes	No
39.	Existing, Modified, or New Federal/State Permits	☑	☐
40.	Involvement of Another Federal Agency (e.g. license/permit, funding, approval)	☑	☐
41.	Action in a State with NEPA-type law	☐	☑
42.	Action Would Require Expansion of Public Utilities/Services	☐	☑
43.	Depletion of a Non-Renewable Resources	☐	☑
44.	Subject to an Existing Institutional Work Planning and Control Process	☐	☑
45.	Other Pertinent Information Which Could Impact Human Health or the Environment	☐	☑

V. Applicant certification that to the best of their knowledge all information provided on this Notification is accurate:

	Yes	No
Does this disclosure contain: classified, sensitive business, or other exempt information that DOE would not be obligated to disclose pursuant to the Freedom of Information Act.	☐	☑

A. Organization Official (Name and Title): Hannah Brune, Authorized Signer, Grants & Contracts

Signature: Hannah Brune Digitally signed by Hannah Brune Date: 2025.07.30 11:10:55 -05'00' Date: 7-30-2025

e-mail: grantsdc@missouri.edu Phone: 573-884-7737

B. Optional Secondary Approval (Name and Title): _____

Signature: _____ Date: _____

e-mail: _____ Phone: _____

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Remainder to be completed by DOE

VI. DOE Concurrence/Recommendation/Determination:

A. DOE Project Director/Program Manager or Contract/Grant Management Specialist:

	Yes	No
Has the Applicant completed this Notification correctly?	☑	☐
Does an existing generic categorical exclusion apply?	☐	☑

If yes, indicate: _____

Name and Title: Angelique Andrews

Signature: ANGELIQUE ANDREWS Digitally signed by ANGELIQUE ANDREWS Date: 2025.07.30 11:16:26 -05'00' Date: _____

B. DOE NEPA Team Review (if requested):

	Yes	No
Is the class of action identified in the DOE NEPA Regulations (Appendices A-D to Subpart D (10 CFR § 1021))?	☑	☐

If yes, specify the class(es) of action: B1.15, B1.31

Name and Title: _____

Signature: _____ Date: _____

C. DOE Counsel (if requested):

Name and Title: _____

Signature: MICHELLE MCKOWN Digitally signed by MICHELLE MCKOWN Date: 2025.07.30 12:37:42 -05'00' Date: _____

D. DOE NEPA Compliance Officer:

The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR § 1021.410.

☑ Action may be categorically excluded from further NEPA review. I have determined that the proposed action meets the requirements for Categorical Exclusion referenced above.

☐ Action requires approval by Head of the Field Organization. Recommend preparation of an Environmental Assessment.

☐ Action requires approval by Head of the Field Organization or the SC Director of Field Operations. Recommend preparation of an Environmental Impact Statement.

Comments/limitations if any:

NEPA Compliance Officer:

Name: _____

Signature: JAYASHREE JAYARAJ Digitally signed by JAYASHREE JAYARAJ Date: 2025.07.30 12:40:45 -05'00' Date: _____

Optional Additional Narrative: (add additional detail to description to Sections I and II or explanations to responses in Sections 3 and 4.

1.A. DOE Radioisotope Science Center in Missouri Proposal
Equipment List

Micro Lab Equipment
Cabinets
Autoclave
Refrigerator
Incubator
Thermometers-Electronic Monitors
Pass through box
Endosafe PTS
Manifold/pump
Digital pipettes
Bench/work area
Lightbox
Microscope
Printer/Scanner/Copier
Purified water system
Cabinets for media/supplies

QA/QC Equipment
Analytical Balance w/Table
HPGe System
Dose Calibrator
pH Meter
ICP-OES
UV-Vis
Analytical Glassware
Digital pipettes
Digital pipette stands
Chemical storage cabinets
Stronghold Retain Cabinets
BioScan
Printer/scanner/copier
Hot plate/stir plate/vortexer
Purified water system
Acrylic shields
Lab coat hangup/storage
Upright cabinet/reagents
Refrigerator
Oven

No funds from this action will have any chemical or environmental impacts. This action will not produce any radioactive work.

Radioactive work will take place when a task order for the creation of isotopes is received from the Department of Energy. These task orders will be regulated by the Nuclear Regulatory Commission through a materials license. Materials licenses are categorically excluded from environmental review under 10 CFR 51.22(c)(14). Additionally, 10 CFR 51.22(c)(5) is also excluded from requiring an environmental review, which is for the "procurement of general equipment and supplies".

II. With work being limited to interior construction work there will be less disruptive environmental hazards. However, with commercial construction activities such as mechanical, electrical, plumbing, and equipment installation, these activities generate basic construction related noises. This is primarily related to the use of equipment and power tools. To mitigate this impact to the workforce all University projects require the use of personal protective equipment (PPE) on all projects. The requirements for PPE include but are not limited to hard hats, safety glasses, high-visibility clothing, closed-toed leather shoes and gloves. In addition to the use of PPE, contractors are required to provide documentation that their employees working onsite have OSHA-15 training along with certifications for all equipment their employees will be operating. Proper use of PPE and training.

III.
B.7.
With interior construction there are two potential human health impacts, indoor noise and poor indoor air quality. To minimize the noise during the project, the use of electric equipment (ie: scissor and fork lifts) and battery-operated equipment will be used. To promote indoor air quality, the contractors will use low or no-VOC products along with dust control measures that follow best construction practices. If needed the implementation of personal protective equipment (ie: respirators) and local exhaust ventilation would be implemented.

IV
A.18
To minimize the noise during the project, the use of electric equipment (ie: scissor and fork lifts) and battery-operated equipment will be used. Additionally, if needed, the use of vibration isolation mats or pads can be placed within the area to lessen the construction noise.

IV.
B.38. Facility footprint exceeds 5,000 Square Feet
The proposed facility is 33,559 gross square feet. The building is being constructed by the University of Missouri and only the interior equipment is being funded by DOE so the area will already be disturbed prior to installing anything that is funded by DOE.

C.39: Radioactive material at the facility, including within any hot cells, will be either in exempt quantities or licensed under the NRC regulations pertaining to the material quantities, forms, and their use. Any impacts from the storage, use, or transfer of radioactive materials will be addressed under the applicable NRC regulations and license considerations.

C.40: We will be working under our NRC license.

5. Construction waste will be collected in the project dumpster and removed to local transfer station. This project is a new building and will not contain older building materials that might contain asbestos, lead or polychlorinated biphenyl (PCBs). Additionally, there would not be the presence of hazardous waste within the facility to create the need for mitigation and removal.