AMENDMENT TO RULES COMMITTEE PRINT 117-31
OFFERED BY MR. FOSTER OF ILLINOIS

Page 641, after line 22, insert the following:

Subtitle G—National Nuclear University Research Infrastructure Reinvestment

SEC. 10671. SHORT TITLE.

This subtitle may be cited as the “National Nuclear University Research Infrastructure Reinvestment Act of 2021”.

SEC. 10672. PURPOSES.

The purposes of this subtitle are—

(1) to upgrade the nuclear research capabilities of universities in the United States to meet the research requirements of advanced nuclear energy systems;

(2) to ensure the continued operation of university research reactors;

(3) to coordinate available resources to enable the establishment, including the start and efficient completion of construction, of new nuclear science and engineering facilities; and
(4) to support—

(A) workforce development critical to maintaining United States leadership in nuclear science and engineering and related disciplines; and

(B) the establishment or enhancement of nuclear science and engineering capabilities and other, related capabilities at historically Black colleges and universities, Tribal colleges or universities, minority-serving institutions, EPSCoR universities, junior or community colleges, and associate-degree-granting colleges

SEC. 10673. UNIVERSITY INFRASTRUCTURE COLLABORATION.

Section 954(a) of the Energy Policy Act of 2005 (42 U.S.C. 16274(a)) is amended—

(1) in paragraph (2) by amending subparagraph (D) to read as follows:

“(D) promote collaborations, partnerships, and knowledge sharing between institutions of higher education, National Laboratories, other Federal agencies, industry, and associated labor unions; and”;

(2) by amending paragraph (4) to read as fol-
“(4) Strengthening university research and training reactors and associated infrastructure.—

“(A) In general.—In carrying out the program under this subsection, the Secretary may support—

“(i) converting research reactors from high-enrichment fuels to low-enrichment fuels and upgrading operational instrumentation;

“(ii) revitalizing and upgrading existing nuclear science and engineering infrastructure that support the development of advanced nuclear technologies and applications;

“(iii) regional or subregional university-led consortia to—

“(I) broaden access to university research reactors;

“(II) enhance existing university-based nuclear science and engineering infrastructure; and

“(III) provide project management, technical support, quality engineering and inspections, manufac-
turing, and nuclear material sup-
port.”;

“(iv) student training programs, in
collaboration with the United States nu-
clear industry, in relicensing and upgrad-
ing reactors, including through the provi-
sion of technical assistance; and

“(v) reactor improvements that em-
phasize research, training, and education,
including through the Innovations in Nu-
clear Infrastructure and Education Pro-
gram or any similar program.

“(B) Of any amounts appropriated to
carry out the program under this subsection,
there is authorized to be appropriated to the
Secretary to carry out clauses (ii) and (iii) of
subparagraph (A) $55,000,000 for each of fis-
cal years 2022 through 2026.”.

SEC. 10674. ADVANCED NUCLEAR RESEARCH INFRASTRUC-
TURE ENHANCEMENT SUBPROGRAM.

Section 954(a) of the Energy Policy Act of 2005 (42
U.S.C. 16274(a)), as amended by section 3, is further
amended—

(1) by redesignating paragraphs (5) through
(8) as paragraphs (6) through (9), respectively;
(2) by inserting after paragraph (4) the following:

“(5) ADVANCED NUCLEAR RESEARCH INFRA-STRUCTURE ENHANCEMENT.—

“(A) IN GENERAL.—The Secretary shall carry out a subprogram to be known as the Advanced Nuclear Research Infrastructure Enhancement Subprogram in order to—

“(i) demonstrate various advanced nuclear reactor and nuclear microreactor concepts;

“(ii) establish medical isotope production reactors or other specialized applications; and

“(iii) advance other research infrastructure that, in the determination of the Secretary, is consistent with the mission of the Department.

“(B) NEW NUCLEAR SCIENCE AND ENGINEERING FACILITIES.—In carrying out the subprogram, the Secretary shall establish—

“(i) not more than 4 new research reactors; and

“(ii) new nuclear science and engineering facilities, as required to address re-
search demand and identified infrastructure gaps.

“(C) LOCATIONS.—New research reactors and facilities established under subparagraph (B) shall be established in a manner that—

“(i) supports the regional or sub-regional consortia described in paragraph (4)(C); and

“(ii) encourages the participation of—

“(I) historically Black colleges and universities;

“(II) Tribal colleges or universities;

“(III) minority-serving institutions;

“(IV) EPSCoR universities;

“(V) junior or community colleges; and

“(VI) associate-degree-granting colleges.

“(D) FUEL REQUIREMENTS.—New research reactors established under subparagraph (B) shall not use high-enriched uranium, as defined in section 2001 of division Z of the Consolidated Appropriations Act of 2021.
“(E) Authorization of Appropriations.—Of any amounts appropriated to carry out the program under this section, there are authorized to be appropriated to the Secretary to carry out the subprogram under this paragraph—

“(i) $10,000,000 for fiscal year 2022;
“(ii) $45,000,000 for fiscal year 2023;
“(iii) $60,000,000 for fiscal year 2024;
“(iv) $65,000,000 for fiscal year 2025;
“(v) $80,000,000 for fiscal year 2026;
“(vi) $140,000,000 for fiscal year 2027;
“(vii) $120,000,000 for fiscal year 2028; and
“(viii) $80,000,000 for fiscal year 2029.”; and

(3) by amending paragraph (9), as redesignated by paragraph (1) of this section, to read as follows:

“(9) Definitions.—In this subsection:

“(A) Associate-degree-granting college.—The term ‘associate-degree-granting college’ means an institution of higher edu-
cation (as determined under section 101 of the Higher Education Act of 1965 20 U.S.C. 1001) that—

“(i) is a nonprofit institution that offers a 2-year associate-degree program or a 2-year certificate program; or

“(ii) is a proprietary institution that offers a 2-year associate degree program;

“(B) JUNIOR FACULTY.—The term ‘junior faculty’ means a faculty member who was awarded a doctorate less than 10 years before receipt of an award from the grant program described in paragraph (2)(B);

“(C) JUNIOR OR COMMUNITY COLLEGE.—The term ”junior or community college: has the meaning given the term in section 312 of the Higher Education Act of 1965 (20 U.S.C. 1058);

“(D) EPSCOR UNIVERSITY.—The term ‘EPSCoR university’ means an institution of higher education located in a State eligible to participate in the program defined in section 502 of the America COMPETES Reauthorization Act of 2010 (42 U.S.C. 1862p note);
“(E) HISTORICALLY BLACK COLLEGE OR UNIVERSITY.—The term ‘historically Black college or university’ has the meaning given the term ‘part B institution’ in section 322 of the Higher Education Act of 1965 (20 U.S.C. 1061);

“(F) MINORITY-SERVING INSTITUTION.—The term ‘minority-serving institution’ means a Hispanic-serving institution, an Alaska Native-serving institution, a Native Hawaiian-serving institutions, a Predominantly Black Institution, an Asian American and Native American Pacific Islander-serving institution, or a Native American-serving nontribal institution as described in section 371 of the Higher Education Act of 1965 (20 U.S.C. 1067q(a)); and

“(G) TRIBAL COLLEGE OR UNIVERSITY.—The term ‘Tribal College or University’ has the meaning given such term in section 316 of the Higher Education Act of 1965 (20 U.S.C. 1059e).”.
SEC. 10675. SCIENCE EDUCATION AND HUMAN RESOURCES

SCHOLARSHIPS, FELLOWSHIPS, AND RESEARCH AND DEVELOPMENT PROJECTS.

(a) IN GENERAL.—The purpose of this section is to support a diverse workforce for the complex landscape associated with effective and equitable development of advanced nuclear energy technologies, including interdisciplinary research to enable positive impacts and avoid potential negative impacts across the lifespan of nuclear energy technologies.

(b) NONTECHNICAL NUCLEAR RESEARCH.—Section 313 of the Omnibus Appropriations Act, 2009 (Public Law 111–8; 42 U.S.C. 16274a) is amended:

(1) in subsection (b)(2), after “engineering”, by inserting “, which may include nontechnical nuclear research.”;

(2) in subsection (c), by inserting after paragraph (2) the following:

“(3) NONTECHNICAL NUCLEAR RESEARCH.—The term ‘nontechnical nuclear research’ means research with specializations such as social sciences or law that can support an increase in community engagement, participation, and confidence in nuclear energy systems, including the navigation of the licensing required for advanced reactor deployment, aligned with the objectives in section 951(a)(2) of
the Energy Policy Act of 2005 (42 U.S.C. 16271(a)(2)).''; and

(3) in subsection (d)(1), by striking ""$30,000,000"" and inserting ""$45,000,000"".