

**SENATE**  
**S. No. 403**

'19 JUL 11 P 4:18

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Introduced by Senator Francis "Tol" N. Tolentino

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**AN ACT**  
**ESTABLISHING A NATIONAL SCHOLARSHIP PROGRAM FOR STUDIES IN**  
**NUCLEAR SCIENCE AND NUCLEAR ENGINEERING**

EXPLANATORY NOTE

The Constitution, Article 14, Section 10, provides:

Science and technology are essential for national development and progress. The State shall give priority to research and development, invention, innovation, and their utilization; and to science and technology education, training, and services. It shall support indigenous, appropriate, and self-reliant scientific and technological capabilities, and their application to the country's productive systems and national life.

Science and technology is essential for the development and advancement of the nation. One field of science that has been proven to provide endless benefits to society is the study of Nuclear Science. Nuclear technology is one of Russia's biggest economic assets which according to the World Nuclear Association, foreign orders totaled to USD133 billion at the end of 2016.

Currently, the Philippines is the only country in the Association of South East Asian Nations (ASEAN) with a completed nuclear power plant. The country's existing

nuclear power plant located in Morong, in the province of Bataan, is one of 13 prospective sites across the Philippines.

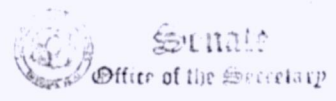
This bill aims to further inspire and urge the Filipino youth to pursue a future in nuclear science and nuclear engineering by providing scholarship grants in order for the country to fully realize the potential and harvest the benefits of nuclear science.<sup>1</sup>



**FRANCIS "TOL" N. TOLENTINO**  
Senator

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<sup>1</sup> This was lifted from the bill originally filed by the late Senator Miriam Santiago during the Fourteenth Congress, Second Regular Session; refiled during the Sixteenth Congress, Second Regular Session; and is now refiled during the Eighteenth Congress, First Regular Session in her honor.



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*Be it enacted by the Senate and House of Representatives of the Philippines in*  
*Congress assembled:*

1 Section 1. *Short Title.* – This Act shall be known as the "Nuclear Science and  
2 Nuclear Engineering Scholarship Act."

3 Sec. 2. *Declaration of Policy.* – Science and Technology is essential for national  
4 development and progress. It is hereby declared the policy of the State to promote  
5 the development of the country's science and technology by promoting and enhancing  
6 the capabilities required in the areas of research, development, innovation as well as  
7 their utilization. As such, it shall provide for scholarships, grants-in-aid, or other forms  
8 of incentives to deserving science students and other specially-gifted citizens to enable  
9 them to pursue higher education or training in areas of science and technology.

10 Sec. 3. *Definition of Terms.* – For purposes of this Act, the term:

- 11 a) *DOST* – refers to the Department of Science and Technology;
- 12 b) *Nuclear engineering* – refers to the application of the breakdown of atomic  
13 nuclei and/or other sub-atomic physics, based on the principles of nuclear  
14 physics. It includes, but is not limited to, the interaction and maintenance of  
15 nuclear fission systems and components, specifically, nuclear weapons, nuclear  
16 power plants, and/or nuclear weapons. The field may also include the study of



1 nuclear fusion, medical and other applications of (generally ionizing) radiation,  
2 nuclear safety, heat/thermodynamics transport, nuclear fuel and/or other  
3 related (e.g., waste disposal) technology, nuclear proliferation, and the effect  
4 of radioactive waste or radioactivity in the environment; and

5 c) *Nuclear science* – refers to the study of the atomic nucleus.

6 Sec. 4. *In General.* – A National Scholarship Program for Studies in Nuclear Science  
7 and Nuclear Engineering shall be created and spearheaded by the Department of  
8 Science and Technology (DOST), in coordination with such government agencies and  
9 institutions involved in fostering the development of nuclear science and nuclear  
10 engineering in the country.

11 Sec. 5. *Application.* – An eligible undergraduate institution may receive a grant  
12 upon proper application to the Secretary of the DOST. The application shall include a  
13 cost effective proposal on how the scholarship grant shall be expended to attain the  
14 objective of fostering the development of nuclear science and nuclear engineering in  
15 the country including but not limited to proposed scholars willing and capable to  
16 undertake comprehensive training on nuclear science and technology as well as the  
17 institutions, locally or abroad, which will provide such training.

18 Sec. 6. *Duration.* – The National Scholarship Program for Studies in Nuclear  
19 Science and Nuclear Engineering shall last for four years from the effectivity of this  
20 Act. Thereafter, the program shall be evaluated according to criteria and measures to  
21 be determined by the DOST.

22 Sec. 7. *Report.* – The DOST shall transmit a progress report to Congress every  
23 year for the duration of the program.

24 Sec. 8. *Appropriations.* – The amount necessary to carry out the provisions of this  
25 Act is hereby authorized to be appropriated from the National Treasury.

26 Sec. 9. *Separability Clause.* – If any provision of this Act is held invalid or  
27 unconstitutional, the same shall not affect the validity and effectivity of the other  
28 provisions hereof.

29 Sec. 10. *Repealing Clause.* – All laws, decrees, orders, and issuances, or portions  
30 thereof, which are inconsistent with the provisions of this Act, are hereby repealed,  
31 amended or modified accordingly.

- 1 Sec. 11. *Effectivity Clause.* – This Act shall take effect fifteen (15) days after its
- 2 publication in the Official Gazette or in two (2) newspapers of general circulation.

Approved,