FIFTEENTH CONGRESS OF THE)
REPUBLIC OF THE PHILIPPINES)
Third Regular Session)

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SENATE

S. No. 3279

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Introduced by Senator Edgardo J. Angara

EXPLANATORY NOTE

Despite many science, technology, engineering, and mathematics (STEM) scholarships developed and implemented by the Department of Science and Technology (DOST), the Philippines is still lacking in competent STEM professionals and teachers. Many studies correlate the quality of teachers and of teaching to student achievements in science² and subsequently, to their choice to build science careers. With this in mind, this measure proposes new scholarships, which are open to courses on the sciences, mathematics, and engineering, with additional incentives for graduates to return service by teaching science and mathematics subjects in public or private high schools.

The proposed bill also aims to fast track the creation of a critical base of good science and mathematics teachers in high schools, in anticipation of the future implementation of K-12 curriculum. It plans to build on the current DOST-SEI undergraduate S&T scholarships by capturing current students in STEM courses in their last two years of study, and by offering them scholarships in exchange for teaching high school science, mathematics, or technology courses for a corresponding two years as return-of-service. Also, the bill introduces the option of hiring retired or unemployed science professionals as full- or part-time science teachers in high schools.

Furthermore, this measure gives additional incentives to these future teachers by upgrading their salaries to the equivalent to that of Special Science Teachers in the Philippine Science High School System, and by offering them scholarships to pursue Education units, should they wish to qualify for the Licensure Examination for Teachers (LET), through the Normal Schools.

¹ The DOST currently runs numerous undergrad and graduate scholarships, however the Philippines only has 157 scientists and engineers per million population (NSTP 2002-2020).

² Rich, Colleen K "No Science Teacher Left Behind." From *Mason Spirit* George Mason University, 2009 Accessed at http://seorgamu.edu/announcements/SpiritFall09-Ganesan-Excerpt.pdf 13 November 2010.

Students—most of whom are intimidated by daunting scholarship requirements, if not by science's "difficult" reputation alone—should be given attractive incentives not only to go into STEM courses, but the opportunity to also teach these to high school students. This hopefully creates positive feedback which would assure a continuing feeder system by generating a wider interest in STEM through quality teaching in the secondary schools.

For these reasons, the swift approval of this bill is earnestly sought.

EDGARDO J. ANGARA

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REPUBLIC OF THE PHILIPPINES)			
Third Regular Session)	*47)	SEP 11	P3:46

SENATE

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s. No. 3279

Introduced by Senator Edgardo J. Angara

AN ACT

STRENGTHENING THE TEACHING OF SCIENCE AND MATHEMATICS IN SECONDARY SCHOOLS BY SCIENCE, MATHEMATICS AND ENGINEERING GRADUATES, PROVIDING FOR SCHOLARSHIPS AND INCENTIVES THEREFOR AND FOR OTHER PURPOSES

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

Chapter I. GENERAL PROVISIONS

SECTION 1. Short Title. – This act shall be known as the "S&T Scholarships with Teaching Incentives Act of 2012."

SEC. 2. Declaration of Policy. – Science, technology and engineering are essential for national development and progress. The State shall give priority to research and development, invention, innovation and their utilization. Priority shall also be given to science and technology education, training and services.

In line with the above, it is hereby declared the policy of the State to promote the development of the country's science and technology manpower in line with economic development and to provide the capability required in the areas of research, development, innovation as well as their utilization. As such, it is important that the State provide for quality science and mathematics teachers at the secondary level, which would encourage more students to pursue careers in science and technology.

Therefore, the State shall provide for scholarships to deserving science students and other specially-gifted citizens to enable them to pursue higher education or training in areas of science, technology and engineering, and to provide incentives for them to become secondary school teachers, especially in their home regions.

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SEC. 3. General Objectives. - To carry out the measure, this Act shall strengthen the country's science and technology education by fast tracking graduates in the sciences, mathematics, and engineering who shall teach science and mathematics subjects in secondary schools throughout the country. Towards this end, scholarships shall be provided to finance the education of talented and deserving students in their third year of college, and pursuing a degree or training in areas of science and technology, and to

provide incentives for them to pursue a career in teaching in high schools, especially in their home regions.

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Chapter II. UNDERGRADUATE SCHOLARSHIP CRITERIA

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SEC. 4. Scholarship Program. - This Act builds on the current Science and Technology Scholarships offered by the Department of Science and Technology (DOST), through its Science Education Institute (SEI), as provided for in Republic Act No. 7687, otherwise known as the "Science and Technology Scholarship Act of 1994." It envisions a fast tracking of more science, technology, and engineering graduates by offering scholarships to deserving students in these courses in their third year of undergraduate study, based on their competitiveness and merit. It also offers additional incentives to attract the graduates of this scholarship program into teaching science, mathematics and technology courses in a public or private high school.

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SEC. 5. Eligibility. - The following are qualifications for the scholarship with teaching incentive. Applicants must:

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Be a Filipino citizen;

of service (ROS).

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Be a regular third-year college student at the time of award; Be currently enrolled in any of the state universities or colleges, or in

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private universities, especially in Commission on Higher Education (CHED)-compliant programs, under any of the identified priority S&T courses;

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Have a general weighted average (GWA) of 83% or better during their first and second year of college;

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Qualify in the Junior-Level Science Scholarship Examination; and Execute a Service Contract in which they agree to teach as their return

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SEC. 6. Award Amounts. - Recipients are entitled to an annual award for fulltime study equal to the annual tuition and fees charged to students attending an approved undergraduate program at any school in the country, public or private, with minimum 41 slots awarded in private schools to off-set differences in tuition costs. 42

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of undergraduate study, or the last three years for those enrolled in five-year courses such as engineering, while matriculating in an approved program.
SEC. 8. Approved Courses and Priority Programs. – Recipients shall pursue degrees in science, technology and engineering, as identified and approved by the DOST as priority S&T courses. Applicants who are currently enrolled under such courses under the CHED-compliant programs will be given priority.
SEC. 9. Terms and Conditions. – Applicants for the scholarships must execute a service contract in which they:
 Agree to any of the approved return of service conditions; and Agree to repay the amounts disbursed plus interest pursuant to the terms of their service contract.
Failure to comply with the terms of the service contract will result in the full repayment (plus penalties, if applicable) of all award monies received within a specified time limit.
Chapter III. RETURN OF SERVICE CONDITIONS AND INCENTIVES
SEC. 10. Return of Service Conditions Award recipients must teach full-time
high school subject(s) in Mathematics, Biology, Chemistry, or Physics; or Information Technology or Agricultural, Aquaculture or Fisheries Technology, both in the university and technical-vocational tracks in the secondary education curriculum, for a minimum of two years, in a public or private high school.
high school subject(s) in Mathematics, Biology, Chemistry, or Physics; or Information Technology or Agricultural, Aquaculture or Fisheries Technology, both in the university and technical-vocational tracks in the secondary education curriculum, for a minimum of

Recipients of the four- or five-year S&T Undergraduate Scholarship of DOST-SEI under R.A. No. 7687 may also opt to teach full-time the courses identified in Section 10 of this Act, for a minimum of two years at a public or private high school in their home region. This Act amends the service obligation specified in R.A. 7687, and ensures that these scholar-graduates, once hired as teachers, are entitled to a return-of-service ratio of one year service for every two years scholarship enjoyed.

SEC. 12. Teacher Training. – The Philippine Normal University (PNU), being the National Center for Teacher Education per Republic Act No. 9647, otherwise known as "Philippine Normal University Modernization Act of 2009" and its network of universities in teacher education like the National Network of Normal Schools (3NS), as well as CHED-compliant programs in Teacher Education and centers for teacher training recognized by CHED and DepEd, are hereby tasked to provide training for hired teachers under this program. For this purpose, one thousand (1,000) scholarships are made available every year to these hired teachers to be sourced from the Higher Education Development Fund (HEDF), as administered by CHED.

Chapter IV. OPTIONS FOR OTHER SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS GRADUATES

SEC. 13. Eligibility of Science, Technology, Engineering and Mathematics (STEM) Graduates. – Other STEM graduates and professionals, who are not recipients of the scholarship program provided for in this Act, may also apply to teach science, mathematics, or technology subjects in a public or private high school. Applicants must:

Be a Filipino citizen;

 • Must have graduated with a science, technology, engineering, or mathematics degree, with a GWA of 83% or better from a reputable university;

Must be at least 40 years of age at the time of application; and

 Not have a service obligation under another program in conflict with DOST-SEI obligations.

Qualified graduates and professionals shall also be entitled to teacher training programs in any teacher education institution, as specified in Section 12 of this Act, to prepare them into full-time teaching in a public or private high school in their home region.

Chapter V. IMPLEMENTING AGENCIES

SEC. 14. Science Education Institute (SEI). – The DOST-SEI shall be the main implementing agency of the provisions in this Act. The SEI shall be responsible for evaluation, award-giving, and monitoring of scholarship grants and awardees. The

Institute is also tasked with coordinating with other relevant agencies in the fulfillment of the goals of this Act.

SEC. 15. Department of Education (DepEd). – The DepEd is hereby tasked to ensure job placement and hiring of qualified graduates under this program as secondary school teachers in science, mathematics, and related technology courses, and to ensure that these teachers are hired at Special Science Teacher salary grade levels, as specified in this Act. The Department is also tasked with the evaluation and monitoring of hired teachers under this program.

For this purpose, the Department shall create new contractual positions in public high schools to ensure placement of the qualified teachers under this program. It shall also establish a special fund that private high schools may tap to meet the required salary upgrade of these hired teachers.

Chapter VI. MISCELLANEOUS PROVISIONS

SEC. 16. Review and Monitoring. – The DepEd, CHED, and DOST shall report to the President and Congress after the first three years, and annually thereafter, on the implementation of the provisions of this Act and submit recommendations for its improvement.

The Departments are also tasked to monitor the hiring in high schools of scholars under this program, and to undertake such tracer studies and include these in the annual reports.

SEC. 17. Implementing Rules and Regulations. — Within sixty (60) days from approval of this Act, the DOST and the DepEd shall promulgate the rules and regulations to effectively implement the provisions of this Act.

SEC. 18. Appropriations Clause. — An additional amount of Two Hundred Million Pesos (Php200,000,000.00) annually is hereby appropriated for the two-year scholarships of an additional 1,500 students per year under the DOST-SEI S&T Undergraduate Scholarship Program, to be sourced from the earnings of Philippine Amusement and Gaming Corporation (PAGCOR) and the Philippine Charity Sweepstakes Office (PCSO), for the next seven years, or until 10,000 new teachers have been hired under this program.

In order to provide the necessary funds for the new contractual positions created under this Act, an amount of Two Hundred Million Pesos (Php200,000,000.00) shall be appropriated to the DepEd, beginning two years from the effectivity of this Act, and for ten years thereafter, for the upgraded salaries of hired teachers under this program.

1	SEC. 19. Separability Clause If any provision or part hereof, is held invalid or
2	unconstitutional, the remainder of the law or the provision not otherwise affected shall
3	remain valid and subsisting.
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5	SEC. 20. Repealing Clause. This Act amends the service obligation specified in
6	Section 13 of R.A. 7687, otherwise known as the "Science and Technology Scholarship
7	Act of 1994." All other laws, decrees, executive orders, proclamations, and
8	administrative regulations or parts thereof inconsistent herewith are hereby repealed or
9	modified accordingly.
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11	SEC. 21. Effectivity Clause This Act shall take effect fifteen (15) days after its
12	publication in the Official Gazette and at least two (2) national newspapers of general
13	circulation.
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17	Approved,