

# ***21<sup>ST</sup> CENTURY STEM TEACHERS SCHOLARSHIP PROGRAM***

*The 21st Century STEM Teachers Scholarship Program aims to strengthen Indiana's future by expanding the number and diversity of students who pursue a degree and career in K-12 STEM teaching and who develop enhanced knowledge and skills for integrating engineering design into science, mathematics, and technology instruction.*

**SCHOLARSHIPS ARE UP TO  
\$5,000 PER SEMESTER,  
\$10,000 PER YEAR**

## **Available now for 2021-2022**

### **21<sup>st</sup> Century STEM Teachers Scholarship Requirements**

- Admitted to or currently enrolled as a full-time student in a Purdue University undergraduate degree program in secondary mathematics education, secondary science education, elementary education, or dual licensure in elementary education and special education.
- Have a GPA of 3.0/4.0 or greater at the time of application and maintain a minimum GPA of 3.0/4.0 during your degree program.
- Be a U.S. citizen or permanent resident.
- Commit to teaching for a minimum of **one year in an Indiana high-needs or rural school or school district for each year of scholarship support.**
  - Scholars sign a contractual agreement that scholarship monies must be returned if the teaching requirement is not completed.
- Complete the Integrated STEM Education Degree Concentration.
- Work with STEM education faculty as part of a mentoring program.
- Participate in an induction program during the first 2 years of teaching.

### **Learn more and apply at:**

<https://www.education.purdue.edu/catalyst/scholarship-information/twentyfirst-century-stem-teachers/>



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## **FAQS**

### 1. How much is the scholarship?

The scholarship is up to \$5,000 per semester (\$10,000 per year). The scholarship may be renewed for subsequent semesters for a total of four years. Renewal is based on the following conditions: (1) continuation of grant funding for the scholarship and (2) the recipient continues to meet the eligibility requirements.

### 2. If this is a scholarship, then why do I have to return the monies if the teaching requirement is not completed?

The scholarship is structured as a forgivable loan. For each year that you fulfill your teaching requirement in an Indiana high-need or rural school or district, one year of scholarship will be forgiven (i.e., the loan balance is reduced by an amount equivalent to one year of scholarship).

### 3. Who is eligible for the scholarship?

High school seniors through college-level juniors may apply. The scholarship is intended for students in an undergraduate degree program in secondary mathematics education, secondary science education, elementary education, or dual licensure in elementary education and special education. Applicants must be admitted to or currently enrolled in a Purdue University degree program with the intention of completing a Baccalaureate degree in one of the majors listed above AND the Integrated STEM Education Degree Concentration. Students must have a GPA of 3.0/4.0 or greater when they apply. In addition, applicants must be a U.S. citizen or permanent resident.

### 4. How will recipients be chosen?

Applications will be reviewed by a panel that includes at least one faculty member from the disciplinary field of the candidate's interest. Recipients will be selected based on academic record, statement of educational and career goals, and letters of recommendation. We will seek a balance of disciplines (Sciences, Mathematics, Elementary, and Special Education) and student diversity including ethnicity, gender, and socioeconomic background.

5. When is the application deadline?

There is no deadline. Review of applications for the upcoming academic year will begin on March 15 and continue in the order received until all scholarships have been awarded.

6. How many scholarships are available?

We have 4 scholarships currently available for the 2021-2022 academic year.

7. Where do I have to teach after I graduate? How do I know which schools are high-need or rural?

Scholarship recipients must teach in an Indiana high-needs or rural school or district. Purdue faculty will assist you with determining whether or not the schools you are considering for your teaching position are high-need or rural. In general, a high-need school is located in an area where at least 40 percent of students in a school or in the school district are economically disadvantaged. A rural school is located in an area that is at least 5 miles from an urbanized area (city).

8. In addition to the scholarship money, what are the benefits of this program?

There are many benefits to being a 21<sup>st</sup> Century STEM Teacher Scholar. Some of the benefits and opportunities include:

- You will earn an Integrated STEM Education Degree Concentration. The Integrated STEM Education Degree Concentration Program consists of a series of courses (total of 8 credit hours) that prepare you for STEM teaching above and beyond the regular degree program. Teachers who earn this Concentration demonstrate well-developed knowledge, skills, and practices in at least one STEM area of content; to integrate cross-cutting content, processes, and practices; and for teaching diverse student populations. Teachers will understand the practices of scientists, technologists, engineers, and mathematicians—that is, the specific knowledge and skills that form distinct practices of these respective disciplines. In addition, many schools in Indiana are working toward being named a STEM Certified School by the Indiana Department of Education and will be seeking to hire new teachers to be leaders in STEM instruction.
- Purdue has an extensive network of relationships with schools and school corporations, including numerous STEM-oriented partnerships. This extensive network will enhance our ability to ensure that 21<sup>st</sup> Century STEM Teacher Scholars will be placed in classrooms in underserved school corporations as well as school corporations experiencing a shortage of qualified teachers in STEM disciplines.

- 21<sup>st</sup> Century STEM Teacher Scholars will work with STEM education faculty as part of a mentoring program. Mentoring meetings will provide a forum for 21<sup>st</sup> Century STEM Teacher Scholars to seek advice, share experiences, and reflect on learning through program activities. In addition, the mentoring meetings will provide a venue for seminars on topics for preservice/beginning teachers like edTPA requirements, conducting a successful job search, and supporting students with diverse learning needs.
- High school recipients of the 21<sup>st</sup> Century STEM Teachers Scholarship from racially, ethnically, linguistically, and socioeconomically non-majority populations may be eligible to participate in Purdue's Minority Engineering Program's (MEP) Academic Boot Camp. The Academic Boot Camp is a retention program designed to prepare incoming freshmen for the rigorous challenges of academic competition at Purdue University.
- 21<sup>st</sup> Century STEM Teacher Scholars will have opportunities to engage in service learning experiences as well as STEM education research. For example, all Scholars will take at least one semester of Engineering Projects in Community Service (EPICS). EPICS is a program in which teams of undergraduates from a variety of disciplines design, build, and deploy real systems to solve engineering-based problems for local community service and education organizations. In addition, 21<sup>st</sup> Century STEM Teacher Scholars will have opportunities to participate in the College of Education Undergraduate Research Training Program which provides opportunities for students to work with faculty on cutting edge research projects.

#### 9. How do I complete the Integrated STEM Education Degree Concentration?

See the flier on the following page with information about the **four courses required** for the Concentration and when they are offered.

For more information about the 21<sup>st</sup> Century STEM Teacher Scholarship Program, please contact:

Professor Lynn Bryan

Director, Center for Advancing the Teaching and Learning of STEM (CATALYST)

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UNDERGRADUATE K-12 INTEGRATED

# STEM EDUCATION

DEGREE CONCENTRATION

*The persistent pursuit of positioning the STEM teachers of tomorrow to best prepare the next generation of doers.*

<b>EDCI 53900</b> (3 CR) <i>Introduction to K-12 Integrated STEM Education</i> SPRING SEMESTER	<b>EPCS 10100, EPCS 20100, EPCS 30100, or EPCS 40100</b> (1 CR) <i>Participation in EPICS</i> FALL SEMESTER SPRING SEMESTER	<b>EDCI 55800</b> (3 CR) Integrated STEM Education Methods - Secondary FALL SEMESTER	<b>EDCI 49000</b> (2 CR) <i>Engineering by Design - Elementary</i> FALL SEMESTER	<b>EDCI 49000</b> (1 CR) <i>Integrated STEM Teaching Internship</i> FALL SEMESTER SPRING SEMESTER
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