

Project # 1 - EDTC - 816

Annotated Webliography: Online Community Search

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Annotated Bibliography: Online Community Search

Online Communities in STEM

The first project, Online Community in STEM informs about several websites that provide significant information for education in the STEM field. Information are categorized in three types:

- Projects on STEM for Students
- Online Communities for Teachers
- Resources for Teaching STEM

This project gives brief information for several online communities for their activities on their websites. The contact information for each online community you might find in the URL link. Some online communities are open for all people who are interested in their work, and some communities are closed - to access their information you have to be a member of the community. For more information in depth visit the website you are interested in.

Projects on STEM for Students

Community	Project Noah Nature School
Description	Project Noah Nature school is an educational online community that gives amateurs and professionals a chance to create and share multimedia about wildlife. This community collaborates with various organizations and experts of wildlife to share educational content of the wildlife with its members. They publish weekly wildlife facts with the educational content on nature and living organisms. Their publications (artifacts and videos) they advertise in social media such as facebook and in their website that is attached below.
URL	https://www.projectnoah.org/education
Members	The Project Noah does not show the exact number of its members, but it shows 196 countries participated in the community, and seven continents. The contributors in the project Noah collected at least 852,410 postings.
Originated	The original Project Noah platform was founded by Yasser Ansari, Martin Ceperley, Peter Horvath, and Bruno Kruse with support from New York University and the Joan Ganz Cooney Center. The program started in

	2010, it began as an experiment to connect scientists with the purpose of expanding learning and protecting wildlife.
Highlights	<p>Some significant factors of Noah Projects are as follows:</p> <ul style="list-style-type: none"> ● Inspiring students to learn and protect the wildlife. ● Learn about wildlife and identify species. ● Follow popular naturalist spotters. ● Create and publish your own multimedia about the wildlife and publish. ● Connect with experts in this field around the world.

Community	ProjectCSGirls
Description	Projects girls is a nonprofit organization which brings girls who love technology and computer science together. In addition, encourages girls to pursue their interest and careers in education. This community strives to prepare girls to become future leaders in technology and computer science from an early age starting in the middle schools. The domain of the projectCSGirls is within the boundary of the country (in the US).
URL	https://www.projectcsgirls.com/about/
Members	They have reached a number of 15,000 middle school girls in 40 states and 12 countries .
Originated	POOJA CHANDRASHEKAR, Founder and CEO, Pooja founded ProjectCSGIRLS in 2013 during her sophomore year of high school.
Highlights	The ProjectCSGirls organizes different workshops and competitive activities such as ProjectCSGirls Gala. In their workshops students learn about various topics related to technology and science, while in competition they compete in different precisions. Each year they select the winners, and motivate participants to compete again next year.

Community	Project Syncere
Description	The project Syncere supports young people that are interested in pursuing engineering research experiments. They support underrepresented students and assists them with pursuing their plans on careers in STEM. The program provides students will opportunity to learn basic concepts and strategies in engineering.
URL	https://projectsyncere.org
Members	20, 000 members were impacted by this community.
Originated	It was founded in 2009.
Highlights	They work directly with school districts, local universities and community organizations to deliver our engineering-focused programs

Community	Stem Learning Ecosystem
Description	Stem Learning Ecosystem is a program that provides its activity after school and Summer program. It centers on informal learning in the STEM subject for the young people, respectively students. The STEM learning ecosystem designs a pathway for the young students to learn STEM subjects until their adolescence and young adulthood.
URL	https://stemecosystems.org
Members	The website does not provide the exact number of members in this learning community, but it provides other information. Any community can become an active member with a national network of their peers and STEM leaders. They provide with webinars and encourages community peer to peer support and mentoring
Originated	It was founded in 2015 in Denver at an international global conference, the STEM Learning Ecosystems.
Highlights	The STEM learning Ecosystem is widespread throughout the USA. These collaborations happen in schools and beyond the classroom in

	afterschool and summer programs, at home, in science centers, libraries and other places – both virtual and physical.
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STEM online Community for teachers

Community	Inclusive STEM Teaching Projects
Description	<p>The Inclusive STEM Teaching Project offers faculty, postdocs, graduate students, and staff from colleges and universities globally to join our community of facilitators. Facilitators lead institutional- or regional-based learning communities that run concurrently with our online course. Please visit our facilitator website for more information about this opportunity and how to join the community.</p> <p>The Inclusive STEM Teaching Project The Inclusive STEM teaching Projects Offers courses and various presentations involving STEM projects, and keeps the learning community connected.</p>
URL	https://www.inclusivestemteaching.org
Members	They joined around 6,000 per year in the STEM program.
Originated	The Primary sponsor of the Inclusive STEM Teaching Project is National Science Foundation (NSF) and is supported by other DUE donors. It is Founded by University of Michigan's Center for Research on Learning and Teaching.
Highlights	This learning community offers workshops, classes, courses, projects to increase the awareness for post doctorates, graduate under graduate students to conduct research in the STEM field.

Community	Stem Teachers NYC
Description	STEM teachers is a nonprofit organization that supports STEM teachers

	across NYC. They promote an excellent teaching STEM class that provides high quality of instructions to students. They usually offer workshops during the weekends of the academic year and on summer time. They encourage teachers from all over the US and the globe to join them.
URL	https://stemteachersnyc.org
Members	Dr. Fernand Brunschwig was able to grow from an initial group of 25 to more than 1,500 teachers who are members of the organization's on-line professional forum.
Originated	STEMteachersNYC was founded in 2011 by 25 physics teachers to support each other in striving for excellence.
Highlights	<p>STEMteachersNYC cultivates programs such as:</p> <ul style="list-style-type: none"> ● Teaching methodology that is related to Next Generation Standards. ● They are concerned with a student centered approach - interactive learning method. ● The method engages students to do experiments, collect data, and analyze data. ● If the model fails, they restart the cycle of the process again.

Community	STEM COMMUNITY
Description	The STEM Community goal is to connect STEM teachers and like minded people together to share their information and knowledge within the STEM with one another. Because there are many different groups they categorized groups according to their interest and age. Even news in the stem is categorized in primary news, secondary news, and STEM news.
URL	https://community.stem.org.uk/home

Members	This community has over 20,000 teachers; technicians; TA's and governors.
Originated	This community does not give the information when it was created, but it resides in the UK.
Highlights	<p>This community provides STEM teachers with various resources.</p> <ul style="list-style-type: none"> • New STEM apps. • Careers in STEM teaching jobs. • Classroom material about the STEM subject. • Members of the community participate and connect with different groups within this learning community. <p>Nonetheless, there are limited information for non-members.</p>

Community	The STEM Teacher Leadership Network
Description	The STEM Teacher Leadership Network is a learning community where teachers and leaders of the STEM share their ideas and pathways with one another. They share lesson plans, instructions strategies, and resources for STEM. The learning community shares their tools, events, workshops, and news related to STEM. They support their members to explore different topics and support the members with multiplier resources in the teaching strategies and resources within STEM.
URL	https://www.terc.edu/projects/the-stem-teacher-leadership-network-stemtl-net/
Members	TERC reaches more than three million learners a year because it has a huge connection with different learning organizations.
Originated	The STEM teacher leadership was founded before 57 years ago, specifically in 1965 by Arthur Nelson with several colleges at a conference on improving technical education
Highlights	TERC is a great resource for teaching material in the STEM field. They support more than 60 active projects every year, and high-quality, innovative research is based on the understanding that for STEM, real-world application matters. They provide professional development, news and events, publication, products and material.

Resources for Teaching STEM

Community	Stem Teaching Tools
Description	The STEM teaching tools offer tools for teachers in the STEM to be more efficient in their instructions. They are centered to teach and support teaching in the NEXT GENERATION SCIENCE STANDARDS with the best possible tools, practices and resources. Every tool has a specific benefit and is the best for the instructions strategies. There are plenty of practical resources for short courses, respectively projects in the STEM.
URL	https://stemteachingtools.org
Members	It does not provide number of members, but anyone can use the resources and can subscribe.
Originated	It was founded in 2014. The STEM Teaching Tools initiative is funded through federal research grants from the National Science Foundation.
Highlights	<p>Stem Teaching tools provides the tools, PD modules, Climate Learning, News, News Letter.</p> <ul style="list-style-type: none"> • Tools: practice brief 1, practice brief 2, ..., practice brief n. • PD Modules: Session A, Session B, ... • Climate learning resources. • Resources collection. • Newsletter section: Field Notice.

Community	WestED
Description	This website contains educational material for teachers and educators that assists with innovative research, evaluations, curriculum development, opportunities span all subjects. WestEd offers diverse resources for educators with portfolios of work in all levels of education to improve the teaching and learning of STEM.

URL	https://www.wested.org/research-evaluation/
Members	The website does not provide information for the number of the members, but any educator can contact them and get their updates with the Email. Also the website gives access to educators to view their material.
Originated	WestEd has been working for 50 years to provide resources in the teaching and learning technology. Wested was founded in 1966. The Congress funded regional educational laboratories (RELs) across the country to find practical ways to improve education.
Highlights	WestEd keeps up with the current development of the resources in all subjects of education including STEM. Their work includes direct technical assistance and support as well as research and evaluation services.

Community	Capital Region STEMHUB
Description	This website contains resources for the STEM education and it is accessible for all users (parents, students, educators, etc). The website does not take the responsibility of the other websites that are linked and supplied with resources from other material.
URL	https://www.capitalregionstemhub.org/contact-us/
Members	The website does not provide the exact number of their members, but their website is open for all interested to access the resources.
Originated	This website was produced by the Capital Region BOCES Communications Service, Albany, NY. Copyright © 2018. All rights reserved.
Highlights	The Capital Region STEM Hub provides physical, financial resources, and programs for students and educators in the field of STEM. Their purpose is to progress the education in STEM and support new innovations in important economical fields in the region, State of New York, and in the US.