

### GASSSS Matchmaker

The GASSSS Matchmaker provides a mechanism to match GA employees who want to help provide science expertise and materials with educators requesting assistance in Science, Technology, Engineering, and Mathematics (STEM) related areas.

See also: <http://www.sci-ed-ga.org/science-education-outreach-opportunities>

If a GA employee wants to have their name entered in the table below, they should send an email to Larry Woolf (Lawrence.Woolf@ga-asi.com) briefly describing their expertise and what they would be interested in doing in a classroom using the format shown in the table below. This will be posted on this web site in the table below.

Educators should send an email to Larry Woolf (Lawrence.Woolf@ga-asi.com) including their name, school or affiliation, grade level, email address, and type of activity or material that would be of interest. This will be posted on this web site in the format shown below.

**Please note that the Employee list on the left and the Educator list on the right are independent of each other.**

An example of a posting is shown in the first line. If a GA scientist finds a match in the table below, they should contact the teacher directly. **If a teacher finds a match in the table below, they should contact Larry Woolf (Lawrence.Woolf@ga-asi.com), who will put the parties in contact with each other.**

<u>GA Employees Willing to Participate in GASSSS</u>		<u>Educators Wanting a GA Employee</u>	
<u>Name</u>	<u>Expertise</u>	<u>Name/Grade/School/ email</u>	<u>Activities/ Materials of Interest</u>
Amy Engineer	Mechanical engineer willing to discuss engineering careers, machinery, nuclear energy, energy, atoms, radioactivity	Joe Teacher, 6 <sup>th</sup> grade science, San Diego middle school, JTeach@sdms.edu	Want a scientist to talk about their career and/or do a demonstration about forces in real machines
		Michelle Martinez Team Coordinator CyberDragons teams 9887 & 20799 <a href="mailto:CyberDragonsJAMS@gmail.com">CyberDragonsJAMS@gmail.com</a> Website <a href="https://jamssciencemag.net.org/cyberdragonsrobotics">https://jamssciencemag.net.org/cyberdragonsrobotics</a>	This parent led, public middle school robotics team (sub-divided into two) is seeking the following: <ul style="list-style-type: none"> <li>• Mentor(s) to help with robot design, coding, and fundraising</li> <li>• Financial contributions</li> <li>• In-kind donations</li> </ul> We have a budget and a list of potential in-kind donations, happy to share. Thank you!
Mike Cleary	Electrical engineer with experience with robotics and mechatronics (automated cars and UAVs/drones/quadcopters), microcontroller design, and programming. I also have a good background in physics and the understanding of how these things work. I would be glad to do a presentation, mentor a group, or help plan and execute lessons and experiments	Charlie Jenkins, Captain, Clairemonster Robotics <a href="mailto:clairemonsterrobotics@gmail.com">clairemonsterrobotics@gmail.com</a>  <a href="http://clairemonsterrobotics.com/">http://clairemonsterrobotics.com/</a>	They are a team dedicated to enable students to pursue their passions in designing, building, programming, and marketing. In order to expand their program, they need more mentors. They would like a General Atomics employee to meet with their team and support them in our goal to improve STEM education in their community
William Tussey	Technical Editor and IETM developer willing to discuss computers and data technology careers, applications development, networking systems, binary logic, VPN, data streams, microcontroller applications, programming languages and systems analysis & design.	Patty Hurt, Assistant Principal, Poway Unified School District. <a href="mailto:PHurtt@powayusd.com">PHurtt@powayusd.com</a>	High school physics teacher is looking for support working with the students on the Green UP and Go: The Physics of Clean Engineering curriculum: <a href="http://ucci.ucop.edu/integrated-courses/Green%20Up%20and%20Go_%20The%20Physics%20of%20Clean%20Engineering_AUG16.pdf">http://ucci.ucop.edu/integrated-courses/Green%20Up%20and%20Go_%20The%20Physics%20of%20Clean%20Engineering_AUG16.pdf</a>
Kelsey Hite	I have a bachelor's and a nearly-completed master's in aerospace engineering as well as	Dadre Marie Rudolph, Robotics Instructor,	Be a part of my program Advisory Board - one meeting a year, an evening in the

	<p>2 years of experience in structural design, materials research, and manufacturing engineering. I have special interest and experience working with groups of girls, lower-income schools, and special education programs. My experience consists of coaching and mentoring robotics teams of all ages, giving engineering presentations to elementary and middle school classrooms, substitute teaching in special education schools, and writing education materials about engineering and soft skills. I would love to present to and engage with classrooms or help write lesson plans/activities.</p>	<p>Rancho Buena Vista High School 1601 Longhorn Dr. Vista, Ca 92081 <a href="https://sites.google.com/a/vistausd.org/rbv-robotics/home">https://sites.google.com/a/vistausd.org/rbv-robotics/home</a> 760-727-7284 x 72343 <a href="mailto:dadrerudolph@vistausd.org">dadrerudolph@vistausd.org</a></p>	<p>Spring where 3-4 professionals advise on the direction of my program - I love speakers to talk about what they do, what their job looks like from day to day and what they like about it, and I need more women and Hispanic speakers - My students love drones, so anything do to with them - Mentors, parts, financial support for my Rookie FIRST Robotics team, which is girl led.</p>
<p>Vidya Rangaswamy</p>	<p>I am an electrical engineer and systems engineering manager for commercial projects. I am interested in sharing my experience and giving brief presentations on my projects to kindle and motivate middle and high school students on engineering applications.</p>	<p>Name: Joyce Toledo School/Affiliation: Palisades Elementary School (Capistrano Unified School District) Grade level: K-5 Email: <a href="mailto:jatoledo@capousd.org">jatoledo@capousd.org</a></p>	<p>I am hoping to get connected to engineers (systems, mechanical, software, computer, etc) who can provide age appropriate interactive STEM lessons and/or activities for K-5 students during the 2016-2017 school year (beginning Aug. 15, 2016 ending June 1, 2017). As a way to bring back science onto our school site, I was wondering if one (or more) volunteer engineers would want to provide STEM lessons (in the classroom or as a larger assembly) and activities to our students.</p>
<p>Lauren Bohn</p>	<p>I am a software engineer with a background in nuclear engineering which I obtained through my 8 years of active duty Naval service. I am now a member of the Navy Reserves and I am interested in discussing programming, nuclear, process improvement, and topics related to military engineering career paths, scholarships, etc. I enjoy working with elementary school children and I would be comfortable assisting with labs/projects, particularly involving electronics and/or programming. I hold a bachelor's degree in nuclear engineering technology and I am almost finished with my master's in engineering management.</p>	<p>Minnie Cho Wood Canyon Elementary School (Capistrano Unified School District) Grade level: K-5 <a href="mailto:micho@capousd.org">micho@capousd.org</a></p>	<p>Our school is re-imagining ourselves for next school year as a technology focused school. I am looking for engineers (systems, mechanical, software, etc.) that would be able to do hands-on activities or lessons in the classroom for our students grades K-5. We are very open and flexible on time and type of lessons.</p>
<p>Robert Abbott</p>	<p>I will discuss the principles of paint coatings from an applications perspective, demonstrating painting techniques Talks will focus in part on the chemical components of paint; will demonstrate the measuring devices used in weighing (gram scales), determining color (colorimeter), opacity (Leneta card) thickness of wet material (using wet test card) and dry film coatings (using micrometers), viscosity (using Zahn cup and stop watch), as well as highlight the use of applicators, such as paint guns. Finally, discuss the career opportunities in the field of coatings with special reference to applications in the aerospace and automotive industries.</p>	<p>Tanya Long Literacy First Charter Schools Junior Academy <a href="mailto:tanya.long@lfcinc.org">tanya.long@lfcinc.org</a> 1012 E. BRADLEY AVENUE, EL CAJON, CA 92021</p>	<p>I'm looking a mentor for our brand new FIRST LEGO league robotics team which starts fall 2016. The after school club is for 32 students grades 6-8 that will form three FLL teams. This is my first experience with robotics. I would like a mentor in the industry to help with coaching, mentoring and/or fundraising.</p>

<p>Marcella Sosa</p>	<p>Quality Engineer, ASQ CQE with a B.S. in Mechanical Engineering. I'd would like to talk to students about being a female in an engineering field, college, and a typical day as an engineer. I've worked in the utilities, food, gaming, and defense industries as an intern, Manufacturing Engineer, and Quality Engineer. I also have experience in mentoring and helping build for FIRST Robotics and Lego League teams.</p>	<p>Achi Mishra, Junior at Torrey Pines High School,  <a href="mailto:AchiMishra@team3647.com">AchiMishra@team3647.com</a></p>	<p>We would love to have mentors for our FRC Robotics team. We need business mentors so we can be successful in raising money for our team as well as engineering mentors so we can successfully build a robot.</p>
<p>Adam Langevin</p>	<p>I am a Materials Scientist/Chemist with two degrees in chemistry. My passion is cultivating the excitement of investigative discovery with students through experimentation. I have experience teaching High school chemistry in a variety of settings using virtual reality as a tool to engage students more effectively. I would like to introduce high school students to the concepts of heat capacity, precipitation reactions, and general lab practices using hands-on VR chemistry labs. One of my goals is to give students experiences that I have as a scientist on a regular basis. I can then relate these core science concepts to other fields and real-world applications.</p>	<p>Rochelle Mothokakobo Student Initiative  Ocean Discovery Institute  Office: 858.488.3849  Cell: 619-980-8079  Email: <a href="mailto:rmothokakobo@OceanDI.org">rmothokakobo@OceanDI.org</a></p>	<p><i>Each year Ocean Discovery Institute hosts over 800 5th grade students at our lab in Pacific Beach. Guest speakers talk with students for 15 minutes about their path to career and then work with the students on a more personal level in small pre-designed group activities.</i></p> <p>Dates: October 12th – November 13th (Monday-Friday, except Wednesdays)  Time: 9:15AM-11:30AM  Location: Ocean Discovery Institute Lab, Pacific Beach, CA</p>
<p>Jonathan Eng</p>	<p>I have nine years of program finance experience and understand cost and schedule management and can help with the business side of projects and help collaborate with people from any of the engineering teams to help with content. I can help mentor students as I have experience tutoring high school students and would love to interact with them and can discuss opportunities in program finance and the support that is given to tech projects.</p>	<p>Matt Paddock, student, President of Careers in Science club at Torrey Pines High School  <a href="mailto:mpaddock12@yahoo.com">mpaddock12@yahoo.com</a></p>	<p>I run a club at Torrey Pines High School, called Careers in Science, where we bring in professionals who have careers in science and related fields to talk to students during lunch. I was wondering if there was any way that I could have a guest speaker to come to and speak for thirty minutes or so.</p>
		<p>Elliot Gates  (619) 822-4950  <a href="mailto:wegates1@cox.net">wegates1@cox.net</a></p>	<p>I am on the GATE (Gifted and Talented Education) Committee at Ranch Del Rey Middle School here in Chula Vista CA. We are looking at having various presenters come out to the school starting in January and provide the 7th and 8th Grade GATE Students a Presentation approximately an hour in length.</p>
		<p>Yashes Srinivasan  858-848-4755  <a href="mailto:yashess@gmail.com">yashess@gmail.com</a></p>	<p>Yashes Srinivasan, President of Rancho Bernardo High School's FIRST Robotics team number 2658, Team Pedestrian, in San Diego, CA.  Your financial contributions, in kind donations and/or mentoring helps pay for the materials and machinery we need to build our robot, the competition registration, and travel expenses.</p>

		<p>Debbie Griffin  858-484-1180  <a href="mailto:dgriffin@powayusd.com">dgriffin@powayusd.com</a></p>	<p>Our STEM Engineering program here at Mt. Carmel High School in Rancho Penasquitos is reaching out to San Diego's top companies looking for guest speakers and or possibly a tour of your facilities. The class time is 1:30-2:30 and hoping to schedule guest speakers on Friday's. In general topics we are looking for the speakers pathway into engineering, sharing projects and designs</p>
		<p>Jamie Lee  (951) 765-6300  <a href="mailto:jlee@hemetusd.org">jlee@hemetusd.org</a></p>	<p>Last year, we had various engineers guest speak last year for our Project Lead the Way pre-engineering program. I was hoping someone from General Atomics or an affiliate would be interested. I know that many companies have specific goals for reaching youth and enticing them to pursue a career in engineering, so I was hoping we could partner in this venture.</p>
		<p>Kevin Nghiem  <a href="mailto:preussrobotics@gmail.com">preussrobotics@gmail.com</a> or  <a href="mailto:kevin.nghiem16@gmail.com">kevin.nghiem16@gmail.com</a>  Preuss School, UCSD  858-598-7995</p>	<p>Our FIRST robotics team is actively seeking help in the form of:  -Mentoring from individuals with expertise in business and engineering  -Financial sponsorship  -Product or in-kind donations (mechanical parts)</p>
		<p>Gabriel Coats  <a href="mailto:kingme6199@gmail.com">kingme6199@gmail.com</a></p>	<p>I am a Junipero Serra high school student in San Diego, and I am currently a part of the Road Trip Nation Project.  <a href="http://roadtripnation.com/about">http://roadtripnation.com/about</a>  I was hoping to be able to have an interview with someone in order to create a video that will influence teenagers in how they will choose their future careers.</p>
		<p>Karen Oliver  College &amp; Career Technician  Del Lago Academy –  Campus of Applied Science  Grades 9-12 (Escondido Union High School District)  <a href="mailto:koliver@euhsd.org">koliver@euhsd.org</a></p>	<p>All of our Del Lago scholars are challenged to explore real-world problems that extend beyond the classroom by establishing side-by-side working relationships with industry mentors in our robust school-to-college-and-career program. We are always looking for professionals to serve in the following programs:</p> <ul style="list-style-type: none"> <li>• <b>Brown Bag Lunch</b> - Informal presentations held each Wednesday where professionals from a variety of workplaces share their educational and career journey with groups of our freshmen and sophomore scholars.</li> <li>▪ <b>eMENTOR</b> – Sophomore scholars conduct an informational interview with industry professionals via email. These professionals provide valuable insight into their career journey</li> </ul>

			<p>and an authentic audience for our scholars.</p> <ul style="list-style-type: none"> <li>▪ <b>Junior Internship</b> – Industry mentors work side-by-side with a scholar for four hours, two days a week during our six-week spring program. Scholars are exposed to real-world applications of their schoolwork and are provided an opportunity to explore a potential future career.</li> </ul>
		<p>Andrea Cascia  AP Computer Science Principles and  AP Computer Science A  El Camino High School  <a href="mailto:andrea.cascia@oside.us">andrea.cascia@oside.us</a></p>	<p>We are interested in having software engineers review our students coding portfolios in late May of 2019. We would also like to engineers to participate in mock interviews with our students.</p>