

### 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 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 these lists are independent and being on the same line does not imply a match.**

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, 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
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	Dadre Marie Rudolph, Robotics Instructor, 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>	Be a part of my program Advisory Board - one meeting a year, an evening in the 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.
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.	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>	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.
Erica Salazar	I recently graduated from Stanford University with a Bachelor's and Master's in Mechanical Engineering with an emphasis in Heat Transfer. I would love to help out with science presentations, workshops, etc. for any age/year. My expertise would be	Minnie Cho Wood Canyon Elementary School (Capistrano Unified School District) Grade level: K-5	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.

	anything heat transfer, energy, mechanics, basic robotics, and materials related. I would also love to answer questions about college/higher education preparation or interests.	<a href="mailto:micho@capousd.org">micho@capousd.org</a>	We are very open and flexible on time and type of lessons.
Ashley Driscoll	Biologist willing to discuss a variety of topics in the field of biology and chemistry including: microbiology, human biology, mammology, molecular biology, organic chemistry, inorganic chemistry, evolutionary biology, and wildlife biology. Additional topics that I'm also willing to discuss are my experiences in STEM related jobs and being a science major in college.	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	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.
Alejandrina (Hannah) DePriest	Mechanical engineer with experience in designing superlight structures using composite materials. I'm interested in discussing engineering careers, especially encouraging women in pursuing engineering careers. In addition, I could also share previous experiences with STEM research programs.	Achi Mishra, Junior at Torrey Pines High School, <a href="mailto:AchiMishra@team3647.com">AchiMishra@team3647.com</a>	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.
Brent Maness	Systems engineer/ physicist willing to discuss engineering careers, physics, aerodynamics and flight, nuclear energy, energy, atoms and radioactivity	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>	<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>  Dates: October 12th – November 13th (Monday-Friday, except Wednesdays) Time: 9:15AM-11:30AM Location: Ocean Discovery Institute Lab, Pacific Beach, CA
Sanjay Phatak	I am currently a test manager. I have a background in physics. I would be interested in presenting experiments and/or through practical demonstration/lecture interact with K-8 students on how important science is in our daily lives and why one should pursue a career in science. Science can be and is fun. I would be interested in having a teacher match with the Chula Vista school district in grades 3-7.	Matt Paddock, student, President of Careers in Science club at Torrey Pines High School  <a href="mailto:mpaddock12@yahoo.com">mpaddock12@yahoo.com</a>	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.
Vidya Rangaswamy	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.	Elliot Gates  (619) 822-4950  <a href="mailto:wegates1@cox.net">wegates1@cox.net</a>	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.

David Lavelle	Mechanical Engineer working on aircraft mechanical systems hoping to inspire students to consider careers and further education in STEM. Willing to discuss a variety of topics in the field of engineering: mechanical, robotics, aeronautical, civil, biomedical, materials science, chemistry, physics, etc. Recent Cal Poly San Luis Obispo graduate with MS & BS in mechanical engineering, and would love to answer any questions about college/higher education preparation and discernment.	Yashes Srinivasan 858-848-4755 <a href="mailto:yashess@gmail.com">yashess@gmail.com</a>	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.
Lauren Bohn	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.	Debbie Griffin 858-484-1180 <a href="mailto:dgriffin@powayusd.com">dgriffin@powayusd.com</a>	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
Ioana Broome	I have a M.S in Aerospace Engineering (specialized in aero structures) and a B.S. in Industrial Engineering (Mechanical Engineering and Industrial Design). I could discuss aerospace engineering, women in engineering, and I can share details of my daily job with students who are considering entering this field. I can also help put together STEM events where students could do hands on activities, such as build certain structures following design specs or the mission and find the best way to employ their engineering skills to create the best and most efficient product.	Jamie Lee (951) 765-6300 <a href="mailto:jlee@hemetusd.org">jlee@hemetusd.org</a>	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.
Robert Abbott	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.	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	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>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>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://roadtriplnation.com/about">http://roadtriplnation.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 and an authentic audience for our scholars.</li> <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>