

# UBMS NEWSLETTER

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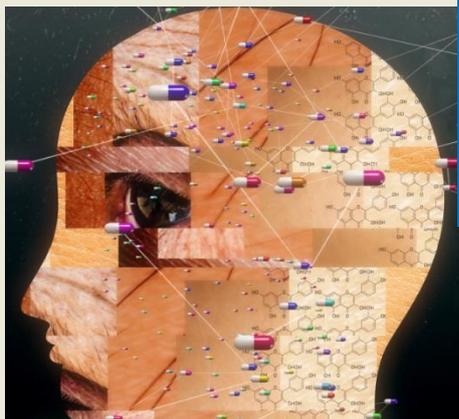
## New Boston's Dynamic Robot Dog

By Alyssia Trujillo and  
David Dominguez

Boston Dynamics' new robot dog, Spot, is getting new updates. The new version of the robot now has new features that make the robot dog more self-sufficient. These features include a changing stand to charge itself without any human interaction as well as adding "Scout", which is a new browser-based control system that offers a streamlined interface for piloting Spot all over the internet. They will also be attaching a robotic arm to allow the robot dog to "grasp, lift, carry, place, and drag a wide variety of objects."

In one of Project Lead the Way survey classes over the summer students will be making a robotic prosthetic arm for a member of our community.

[1]<https://www.google.com/amp/s/www.theverge.com/platform/amp/2021/2/2/22261932/boston-dynamics-spot-enterprise-self-charging-scout-web-based-control-software-robotic-arm>



UBMS is accepting applications RIGHT NOW! To apply, Follow this Link: <https://trinidadstate.edu/upward-bound/index.html>

Click the red Apply Today Button!

Spring Deadline is January 31<sup>st</sup>, 2021.

## Meet our New Tutor

By Alyssia Trujillo

## Anti-Aging Medication

By: Alyssia Trujillo

New advancements in anti-aging drugs have begun human testing. These drugs won't let you live longer but are made treat specific ailments by slowing or even reverse the aging process.

The drugs known as senolytics. The medicine works by targeting and removing certain cells that accumulate as we age. These cells, also known as "senescent" cells. Can be harmful in body because they effect neighboring cells. Unity Biotechnology reported results in giving patients with severe osteoarthritis. They are beginning to develop similar drugs to treat other age-related illnesses of the eyes and lungs as well as other diseases and conditions.

To learn more about Biomedical Technology like the article above we are offering a survey class this summer with the Project Lead the Way Program.

### Reference:

[1]: <https://www.technologyreview.com/10-breakthrough-technologies/2020/>

Scholars we will be adding a new tutor to our Upward Bound family. Meet Ms. Kaytie Blan, a former Upward Bound Math and Science Scholar from the years 2015-2019. Kaytie said her four years being at Upward Bound really impacted her as it helped her understand that College isn't as scary or terrifying as it seems and made her realize you don't have to be the richest or the smartest to get into a good school. You simply need the determination to put in the hard work to get there. She is currently attending the University of Colorado-Colorado Springs and majoring in Psychology. Kaytie has taken a variety of math classes (Trigonometry, Calculus, Statistics and College Algebra) and well versed in a range of subjects. She will be reaching out to Scholars about grades and will be offering tutoring Tuesdays and Wednesdays. We will share her contact info after she fully comes on board.



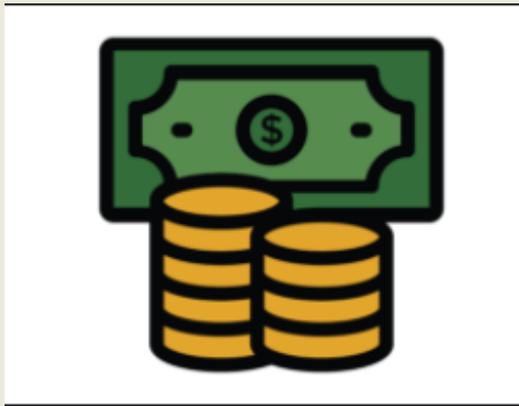
# Reminder about Stipends

Beginning this month (March) Scholars, who accumulate 10 hours of Study Group time qualify for \$120.00 on a monthly basis. Remember if you have a GPA of 3.65 or higher and opt out of study group you are only eligible for the one-time stipend distribution of \$160.00 at the end of the semester. If you opt in and clock the required 10 hours per month you will receive \$120 for every month you participate.

Study group is just as much about hanging out and helping other group members as it is receiving help. Even if you don't need help with homework just login and use this as a dedicated space and time to do your homework, study ahead of your class, or start working on, a science fair project, an essay or research paper that is due at the end of your semester.... AND get paid for those hours! As well as additional incentives.

All Students that follow the appropriate criteria will be eligible to receive the new amount. Attending Study Groups may also put you in competition for work study in the summer where students will earn \$600 per month during the academic summer camp.

As of this month Stipends will be distributed as of April 1<sup>st</sup> so get those 10 hours in this month.



## Contact Us:

Director: David Dominguez  
[David.dominguez@trinidadstate.edu](mailto:David.dominguez@trinidadstate.edu)

Program Assistant: Alyssia Trujillo  
[Alyssia.trujillo@trinidadstate.edu](mailto:Alyssia.trujillo@trinidadstate.edu)

# Lt. General Mary F. O'Brien

General O'Brien is the Deputy Chief of Staff for Intelligence, Surveillance, Reconnaissance and Cyber Effects Operations, Headquarters U.S. Air Force in Arlington, Virginia. As the Air Force's Senior Intelligence Officer, she reports directly to the Director of National Intelligence and the Under Secretary of Defense for Intelligence. She leads six directorates and supports a 73,000-person intelligence and cyber operations enterprise with a portfolio valued at \$72 billion across the Air Force. Lt. Gen. O'Brien received her commission upon graduation from the U.S. Air Force Academy with a Bachelor of Science degree in Chemistry and two master's degrees. She has a Master of the Arts, Organizational Management from George Washington University In Washington D.C. Her second master's is from the Air War College in Strategic Studies.

Scholars if you're interested in a military career please get in touch with us for a list of collegiate ROTC programs and contacts to apply for an ROTC scholarship.

To read more about Lt. General Mary F. O'Brien please refer to the link below.



Reference:

[1]: <https://www.af.mil/About-Us/Biographies/Display/Article/484871/lieutenant-general-mary-f-obrien/>