



MIT Beaver Works Summer Institute

Spring 2022 Outreach Program – 6 Courses

Yes! You Can Program Autonomous Cars

Yes! You Can Hack and Code!

Yes! You Can Design, Build and Fly Model Aircraft

Many Interesting Things for Aspiring Engineers!

Yes! You Can Program Cognitive Assistants!



No Prior Experience Required! WHO: High School Students (9th and 10th grade)

WHEN: Saturdays 11am-2pm (EST) - March 5, 12, 19, 26,

April 2, 9, 16, 23, 2022*

WHERE: Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_spring_2022

* Schedule for the "Yes! You Can Analyze the Building Blocks of Life!" course is different (12 sessions on Tuesdays).

















No Prior Experience Required! Who: High School Students (9th and 10th grade) interested learning about

coding and robotics! Beginners encouraged!

When: Saturdays 11am-2pm (EST) - March 5, 12, 19, 26,

April 2, 9, 16, 23, 2022

Where: Virtually, through Zoom!











YES! YOU CAN HACK AND CODE!



No Prior

Who: High School Students (9th and 10th grade) interested in learning about code

and hacking! Beginners encouraged!

EXPERIENCE When: Saturdays 11am-2pm (EST) - March 5, 12, 19, 26,

April 2, 9, 16, 23, 2022

REOUIRED! Where: Virtually, through Zoom!













No Prior Experience Required!

Who: High School Students (9th and 10th grade) interested in

Aerospace and Aeronautics.

When: Saturdays 11am-2pm (EST) - March 5, 12, 19, 26,

April 2, 9, 16, 23, 2022

Where: Virtually, through Zoom!











Many Interesting Things:

For Aspiring Engineers
From Transistors to Data Science

A BWSI Medlytics intro course by Christian Cardozo

An early introduction to the technologies that shape our world, with applications to medical data analytics!

Python • Computer Architecture • Machine Learning Computer Vision • Linux • The Internet

No prerequisites. No pressure.

No Prior

EXPERIENCE

REQUIRED!

WHO:

High School Students (9th and 10th grade) interested in

learning about computers, coding and medical data analytics.

Beginners Encouraged!

WHEN:

Saturdays 11am-2pm (EST)-March 5, 12, 19, 26,

April 3, 9, 16, 23, 2022

WHERE:

Virtually, through Zoom!

REGISTER:

https://mit-bwsi.formstack.com/forms/bwsi_spring_2022



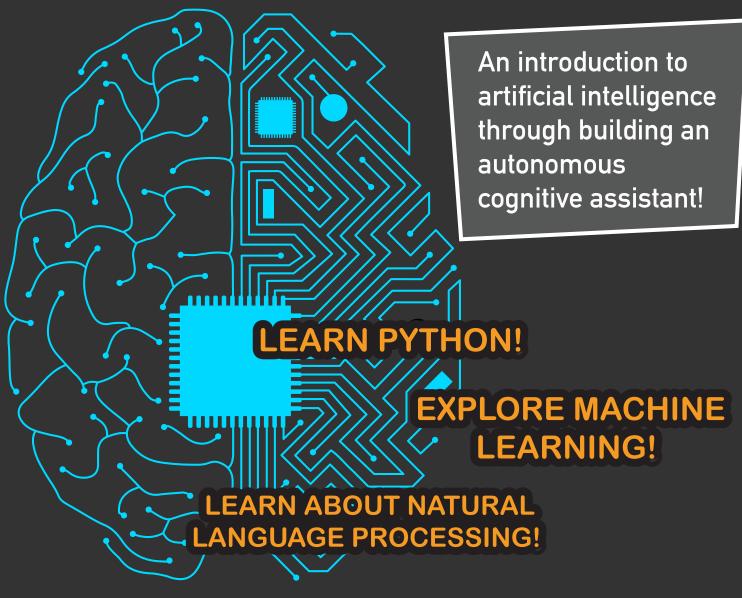








Yes! You Can Program Cognitive Assistants! — a BWSI crash course



No Prior Experience Required! **Who:** High School Students (9th and 10th grade) interested in learning about code and artificial intelligence! Beginners Encouraged!

When: Saturdays 11am-2pm (EST)-March 5, 12, 19, 26, April 3, 9, 16, 23, 2022

Where: Virtually, through Zoom!



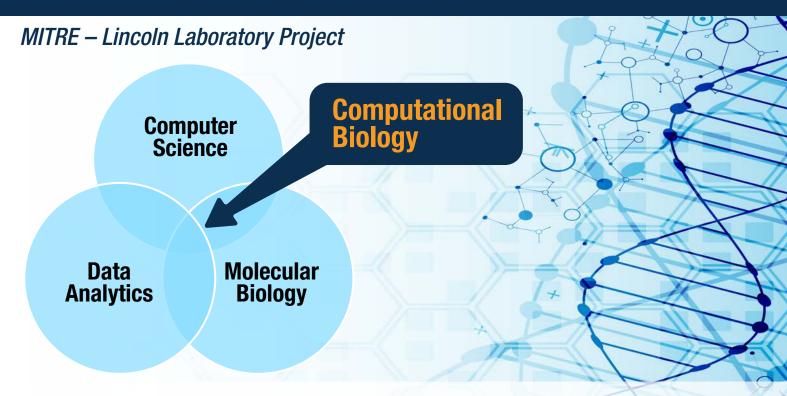








Yes! You can analyze the building blocks of life! Computational Biology And The Microbiome



The future of bio is now! Join us this spring for BWSI's *Computational Biology and the Microbiome* course — co-developed by MITRE and MIT Lincoln Laboratory. Learn about fundamental computational biology concepts like genomics, programming, data visualization, and digital biosecurity in a fun, low stress environment.

No Prior Experience Required!

Who: High School Students (9th and 10th grade) interested in computational

biology and the microbiome! Beginners encouraged!

When: 12 sessions from March 4th to May 26th, 2022. Asynchronous weekly modules

(recorded lectures, notes, assignments), Office-hours on Tuesdays at 4pm EST.

Where: Virtually, through Zoom for office-hours.

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2022











School of Engineering