

Summer Internships on **Engineering Biology @ NC State University**



NC STATE UNIVERSITY

Who is this for?

- Current High School Freshman through Seniors
- Current Undergraduate Students
- Community Organizers, High School Teachers, Community Volunteers, Educators in Higher Education (interested in learning about new themes or activities for classroom or outreach).
 - Local to the Raleigh-Durham area.
 - Underrepresented minorities in the Bioengineering Disciplines (African-Americans, Hispanics, Native Americans, Alaska Natives, Native Hawaiians, and other Pacific Islanders; Women and girls; Veterans enrolled in post-secondary education; or Persons with disabilities).

What is it?

- 6 week summer internship experience at NC State University with an outreach activity the following year.
- Learn about the growing area of Engineering Biology including how engineering cells and organisms can treat diseases, develop stem-cell therapies, and produce useful everyday things like fragrances and fuels.
- Hands-on laboratory experiments with leading NCSU Bioengineering researchers.
- Field trips to bioengineering facilities and/or companies in the area.
- Team-based learning with those with diverse experience levels.
- Present your work at the National Science Foundation in Washington, DC to a national community.

When is it?

June 15 – July 28, 2020 @ NC State University, Raleigh, NC.

How will it work?

- Stipends provided (\$2800 for high school, \$4000 undergraduates, \$6000 teachers-educators-community organizers-community volunteers-veterans).
- Lodging provided for undergraduate students.
- Travel costs provided for Washington, DC trip (date TBD but likely Spring 2021).

Deadline to Apply: March 21, 2020

Application instructions on the next page.

All applicants, please email the below materials (or any questions) to:

EngineeringBiologyNCSU@gmail.com

High School Students

- Resume. This website has a nice example:
<https://www.mass.edu/gearup/documents/WritingaResume.pdf>
- Short 1-paragraph responses to these two questions:
 - What is the most interesting thing to you about STEM?
 - What is the greatest challenge you have faced in your life so far and how have/did you deal with it?

Undergraduate Students

- Resume or CV.
- Short 1-paragraph responses to these two questions:
 - How will this internship experience inform your future career goals?
 - Describe an example of responsibility or leadership in your own learning and career development.

Educators/Community organizers/Community volunteers/Veterans

- Resume or CV.
- Short 1-paragraph responses to these two questions:
 - How might you use this internship experience in your future educational or outreach work?
 - What is the most creative or effective teaching/mentoring approach or philosophy you have either used or observed?