

# BIOTECH CAREER JUMPSTART PROGRAM

College and Career Exploration & Development  
San Diego Miramar College  
2020-2021 Application



The Biotech Career Jumpstart Program is looking for current 8<sup>th</sup> graders to be a part of a dynamic science team as they navigate their high school years. The mission of the program is to prepare high school students to move seamlessly from high school to college prepared for careers in biotechnology.

As a member of the program, students participate in an incredible college and career exploration journey. Students are provided positive and supportive activities in the next 4 years. The program offers academic support, college credit opportunities, career mentoring activities, and being part of a positive community.

The journey begins the summer prior to 9<sup>th</sup> grade at a week-long summer activity at SD Miramar College where bonding and friendships start to form. Throughout the next four years, students have opportunities to participate in hands-on lab activities, college preparation guidance, company tours, industry speakers, career workshops, high school internships, option to take courses for college credit, and job interviews after the program.

Students who enroll at SD Miramar College after high school will have their first two years of college tuition-free, and with dual-enrollment, students can begin progress toward getting their Biotechnology Certificate, AA degree, and/or transfer their units to a university if they choose to do so.

## **To qualify for the program, students must:**

- Be an 8<sup>th</sup> grade student who plans to attend, stay enrolled, and graduate from high school.
- Have an interest in learning about the sciences
- Have a desire to improve academically. The student must have at least a 2.0 grade point average (GPA) to qualify for the program.
- Be available to attend one grade-specific summer program and 2 (of the four) enrichment activities during the school year, typically scheduled on evenings or Saturdays.
- Have transportation to Mira Mesa High School and SD Miramar College.

## **Application Process:**

- Applications are available in January 2020 at your school office OR please contact Kim Teston for electronic copies at [kteston@sdccd.edu](mailto:kteston@sdccd.edu)
- Applications are accepted on a rolling, first-come, first served basis with an end date of April 1, 2020.
- Acceptance notices for the final selected applicants will be sent out via email by April 15, 2020.

## **Application Instructions:**

- Complete and sign pages 3 and 4 of this application packet.
- Parents/Guardians: Provide handwritten answer to question on page 5 of application packet.
- Students: Provide handwritten answer to the question on page 6 OR create a digital video, approximately 1 minute (60 seconds), 100MB MAX. Please upload your video to the following link: <http://bit.ly/biotechjumpstart1>. You must have a google account to upload.
- Turn in your completed application packet (pages 3-6) to your school office OR scan and email to Kim Teston at [kteston@sdccd.edu](mailto:kteston@sdccd.edu).

If you have questions, please contact Kim Teston at 619-388-7541 or [kteston@sdccd.edu](mailto:kteston@sdccd.edu)

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## What do Employees of Biotechnology Companies Do?

### Biotechnologists Make Many Contributions...

#### To Medicine

- Create new vaccines, drugs and diagnostic tests
- Find gene therapies
- Engineer new tissues

#### To Agriculture

- Make Better Crops
- Breed Better Animals

#### To Industry

- Process Food
- Brew beer & wine

#### To Law Enforcement

- DNA analysis
- Analyze evidence

#### To The Environment

- Use microbes to clean oil spills and toxic wastes
- Produce fuel from plants

### Students who successfully complete Certificate in Biotechnology will be able to:

- Assist research scientists in the laboratory.
- Perform technical procedures such as cell counting, solution and media preparation, DNA extraction and characterization, electrophoresis, cloning, polymerase chain reaction, ELISA and other immunology techniques, maintenance of cell lines, transfection, fermentation, protein isolation and purification.
- Follow safety protocols
- Apply knowledge of theory and techniques to troubleshoot experiments.
- Analyze and display data using computer technology.

### Average Entry-Level Research Associate, Biotechnology Salary in San Diego, California

**\$43,618 to \$53,797\***

\*[www.salary.com](http://www.salary.com)

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SOUTHERN  
CALIFORNIA  
BIOTECHNOLOGY  
CENTER

Applications accepted on a rolling basis, end date: **April 1, 2020**

## Important Dates:

July 13 - 17, 2020 (9:00am to 12:00pm): Mandatory Summer Science Program at SD Miramar College

## Optional Opportunities:

February 22, 2020: Crime Scene Lab Activity, SD Miramar College

March 14, 2020: Science Festival, SD Miramar College

## APPLICATION INSTRUCTIONS

Please complete the application below in full and include it in your application packet. This page can be handwritten or typed.

Parent's/Legal Guardian Name (First, Last):

Address:

Email:  Phone:

Student's Name (First, Last):

Student's Date of Birth (MM/DD/YYYY):  Pronouns: he/him/his  she/her/hers

Name of prospective high school:

SDUSD Student ID#:  My student qualifies for Free and Reduced Priced Meals

## APPLICATION CERTIFICATION

I hereby certify that all the information provided in this application is complete and true to the best of my knowledge.

I hereby grant permission to San Diego Miramar College to use my student's name and likeness in promotional materials in the event that I am selected for the program.

\_\_\_\_\_  
Parent/Guardian's Signature

\_\_\_\_\_  
Date

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SOUTHERN  
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## Commitment Form

Mission Statement: To prepare high school students to move seamlessly from high school to college prepared for careers in biotechnology.

By applying for the Biotech Career Jumpstart Program you are demonstrating an interest and sincere willingness to:

- Participate in the program through 12<sup>th</sup> grade.
- Attend one grade-specific program every summer and 2 (of the 4) enrichment activities each school year, typically scheduled on evenings or Saturdays.
- Attend the first mandatory activity on Monday, July 13 to Friday, July 17, 2020, 9:00am-12:00pm.
- Possess the willingness to learn and embrace the goals and mission of the program.
- Make an effort to establish a relationship with everyone in your science team.
- Stay involved in the program 2 years past high school (if still in San Diego region).

**I have read all of the information about this program and if selected I will make every effort to fully comply with all of the above.**

\_\_\_\_\_  
Applicant's (Student) Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Applicant's Name (please print)

**I have read the above requirements and provide permission to have the above named student participate in the Biotech Career Jumpstart Program.**

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Date

If you have questions, please contact Kim Teston at 619-388-7541 or [kteston@sdccd.edu](mailto:kteston@sdccd.edu)

**BIOTECH CAREER JUMPSTART PROGRAM**

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Applicant's Name \_\_\_\_\_

**PARENT/GUARDIAN: What would you hope your child will gain from participating in this program?**

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Applicant's Name \_\_\_\_\_

**STUDENT: 1-page handwritten essay or 60-second video answering:**

**You accidentally ate some radioactive pizza. The good news is it tasted great! The even better news is that it has given you one superpower of your choice. Which superpower would you choose and what would you do with it to make the world a better place?**

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