ABSTRACT

SPECIAL FUND PROPOSAL

Section I. BASIC INFORMATION

Board of Education

Due Date to Grantor:

Meeting Date:

Proposed Project Title: Biotechnology & Biomedic Career High School	ine Education at Regional	√ New
Grant Source and Agency: Alexion Pharmaceutical	l	Continuation
Total Amount Requested: \$ 25,0000 Due	Previous Bd. of Ed. Approval:	
	••	Planning
System Contact: Huân Ngô, MS, PhD.		√ Operational
Telephone #: C. 773-624-4335		Bd. of Ed. Information
Description of Project: Provide a brief description to outline specific objective to goals described in the a	√ Action ☐ Information ☐ Support ☐ Competitive	
Alexion Pharmaceuticals provides this grant for Regional Ca equipment and supplies to teach molecular and genomic science College Biology and STEM Careers.		Entitlement Grant
TARGET: Schools/Unit: Regional Career High School No. of Students: 140 Grade Level(s): 10-12 Eligibility Criteria:		PROPOSAL DEVELOPERS: Huân M. Ngô, MS, PhD
CENTRAL OFFICE USE ON		
ABSTRACT TIMETABLE	RE	VIEW
Return to: Received: Board of Education FINANCE & OPERATIONS Meeting Date 9 19 23	Grants Manager Finance Manager	the state of the s

Human Resource Manager

GRANT PERIOD:

From: (mm/dd/year): 09/01/2023

To: (mm/dd/year): 06/30/2024

Proposed Project Title:	Biotechnology & Biomedicine Education at Regional Career High School
Total Amount Requested:	\$25,000
Proposed Grant Receiving	Agency: Alexion Pharmaceuticals

SECTION II: FISCAL INFORMATION

PERSONNEL

# FT	#PT		COST
		Administrators	\$0
		Teachers	\$0
		Management	\$0
		Paraprofessionals	\$0
		Clerks	\$0
		Others	\$0
		Stipend	\$0
		Longevity	0
		SUBTOTAL	\$0

NON PERSONNEL

	COST
Supplies & Materials	\$10,000
Student Transportation	\$
Staff Travel	\$
Internal Evaluation	\$
External Evaluation	\$
Independent Contractors	\$
Equipment	\$15,000
Other	\$
Indirect Costs, if allowed	\$
TOTAL NON- PERSONEL	\$25,000

FIXED COSTS:

FIXED COSTS	\$0
TOTAL PERSONNEL &	
SUBTOTAL	\$0
Workmen's Compensation	\$0
FICA/Medicare	\$0
Pension (Paras & Mgmt.)	\$0
Health Benefits	\$0

Notes:

- 1) Total Personnel and Non Personnel columns must equal grant total.
- 2) The Abstract budget must be aligned with the Grant Application budget/ED114.
- 3) All applications should budget for staff development (stipends) and evaluation wherever appropriate.

SECTION IIA: BUDGET EXPLANATION

The following categories must be explained:

<u>All Personnel</u>: explain positions; Salary: if the grant pays a percent of salary and fixed costs, please describe below, breaking down percentages and <u>amounts to be paid by grant and by NHPS</u>. Other; and <u>All Non-Personnel items</u>. If additional space is needed, continue to next page.

Equipment: Micropipettor, Gel Electrophoresis System, Thermal Cycler, MiniPCR, Centrifuge, Vortex Mixer, PCR tube racks, Micro-tube racks, Heat block, Mini-centrifuge, Wash bottle, Fridge/ Freezer, Insulated Cool Rack.

Consumables: 1.5 mL tubes, 0.2 mL PCR strip tubes, tips (p20), tips (p200), tips (p1000), Flash Gel 1.2%. Flash Gel 2.2%, Plastic bags, Lab markers, Brady label printer, Label cartridges, 0.5 mL colored tubes

Reagents: Deionized Water (diH20), Ethanol (200 Proof), Molecular Biology Grade Water (mbH20), Food Coloring, DNA Extraction Kits, prepIT L2P, PCR Cocktail, PCR Primers*. DNA Ladder, Extraction Buffer

Biotechnology & Biomedicine Education at Regional Career High School

Proposed Project Title:	
Total Amount Requested: \$25,000	
Proposed Grant Receiving Agency: Regional Career High School	**************************************
SECTION III: SYSTEM OBLIGATIONS	
Project support from other programs: √ None ☐ Yes Explain	:
Linkage with other programs: √ None ☐Yes Explain	:
Local Fiscal costs, (include renovation): √ None ☐ Yes Explain	:
Future local personnel obligations: $\sqrt{\text{None } }$ Yes Explain	:
PROJECT OR GRANT REQUIREMENTS	
☐ Local Maintenance ☐ Replication ☐ Parent Invo	olvement
☐ In-Service Training ☐ Advisory Committee ☐ Linkage w/	other Programs
☐ Non-Public School Involved ☐ Disseminat	ion
ADDITIONAL RESTRICTIONS OR CONCERNS	
SUBMITTING ADMINISTRATOR: She a Signature	8/28/2023
Signature	Date

Proposed Project Title:	Biotechnology & Biomedicine Education at Regional Career High School		
Total Amount Requested	: \$25,000	•	
Proposed Grant Receivin	g Agency: Regional Career High School	*	
SECTION IV: PROP	POSED PERSONNEL		

List, individually, each position proposed by this grant application. If no personnel, please indicate N/A in the chart below

F/T	P/T	Classification	Position Description	Duration of Proposed Service	Proposed Employee	Current NHPS Employee Yes/No	If Yes Current Employee Number
N/A							
	N/A						

V.

PROPOSED CONTRACTS

List <u>individually</u>, each contract that will be prepared by this proposed project. <u>If contractors will not be utilized</u>, please indicate <u>N/A</u> in the chart below.

Proposed Independent Contractor	Brief Description of Service	Proposed Pay Rate	Proposed Total
N/A			

VI. <u>ADDITIONAL INFORMATION:</u> Please Answer All Questions -- Use Additional Pages if Necessary

1. Please state specific goals for this grant or the grant period.

140 students in Biology and STEM Careers classes will learn modern, genomic skills not being taught in any other high schools in New Haven. Our high level of science education will prepare students for the current science workforce of Greater New Haven, that is driven by world-leading Biomedicine Research of Yale Medical School and Biotechnology Sector.

2. If this is a <u>continuation grant</u>, please detail past year goal performance and accomplishments. Use additional space if needed:

N/A

3. How does this grant address School Reform goals?

The Magnet Theme of Career High is Health and Business, which can be broken down to four sectors: Discovery, Manufacturing, Healthcare, and Business of medical cures. Learning the fundamental science and skills is fundamental.

4. Please explain why this proposal is significant and important in relation to improving student and/or staff performance, as well as any additional pertinent information that is specific and relevant: (Include resume of person(s) providing service for contracts \$10,000 and over)

Students will learn a set of 5 genomic skills using these equipment and supplies:

- 1. Precision Volume Measurement.
- 2. Isolation of Own Human Genome.
- 3. Isolation and Amplification of Human Gene.
- 4. Visualization and Analysis of Gene Fragments.
- 5. Analysis of Human Gene Sequence.

These are basic skills of Modern Biology. They are used for routines in the local Biomedicine and Biotechnology Workforce.

REQUIRED:

A COPY OF THE GRANT APPLICATION MUST BE ATTACHED TO THE ABSTRACT.