

# **Bridging the Gap in Gender Parity in STEM education in Kenya: A comprehensive Literature Review**

## **PROJECT CONCEPT NOTE**

**By**

Prof. Jimmy. Macharia, (**PhD**, M.Sc (Com. Sc), **M.Sc.**( Maths) **PGDip**  
Comp. Sc., **B.Ed Sc.** Double Maths)  
Associate Professor of Information Systems &Technology,  
Department of Computing  
School of Science & Technology,  
United States International University -Africa

kmacharia@usiu.ac.ke

## Executives Summary

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This is a project concept note outlining critical elements of the assignment. This include:

1. Working title of the main deliverable. *“Bridging the Gap in Gender Parity in STEM education in Kenya: A comprehensive Literature Review”*
2. Four Research Questions
3. Methodology
4. Research Deliverable (Paper outline)
5. Project Schedule
6. Project Contract Template

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## 1. BACKGROUND

The Education 2030 Agenda for Sustainable Development opened a new chapter in the long struggle towards achieving gender equality. Its commitment to ‘leave no one behind’ expresses the conviction that boys and girls, men and women should benefit equally from development. It envisages a ‘world in which every woman and girl enjoys full gender equality and all educational, legal, social and economic barriers to their empowerment have been removed’. ‘Realizing gender parity and the empowerment of women and girls in education will make a crucial contribution to progress across all the Goals and targets.

Global Education Monitoring Report establishes ‘the mechanism for monitoring and reporting on SDG 4 and on education in the other SDGs’ with the responsibility to ‘report on the implementation of national and international strategies to help hold all relevant partners to account for their commitments as part of the overall SDG follow-up and review.’ No target in this agenda, including Education can therefore be considered met unless gender parity realized.

Despite these efforts, declarations and aspirations by, UN, governments and nations, prior studies have established the fact that gender parity is still a challenge in many nations across the globe. For this reason, the main purpose of this comprehensive literature review is to establish the status of gender parity in STEM education in Kenya. The challenges and their causes that hinder the achievement of gender parity, the existing interventions/projects/programs and their failures or success, as well as the gaps that exist, and the plausible interventions and recommendations that can fill these gaps.

## 2. RESEARCH QUESTIONS

This review aims to answer the following four research questions

1. What’s is the **status of Gender parity in STEM education** in Kenya
2. What **intervention /projects/programs are in place** to bridge the gaps in gender parity in STEM education in Kenya.
3. What **gaps exist in the intervention /projects/programs** for Gender parity in STEM education in Kenya
4. What **recommendations to fill these gaps** in form of intervention /projects/programs for Gender parity in STEM education in Kenya

## 3. METHODOLOGY

### 3.1 Research Strategy

According to Onwuegbuzie; and Frels (2016) posts that like most complex and challenging projects, literature reviews are less overwhelming if they are approached in a systematic fashion, one small piece at a time. Consequently, for this research project to be a success, here are the steps to follow to be followed:

1. Write a detailed plan that outlines the purpose, objectives, and methods to define the literature review.
2. Perform the search using a methodical approach.
3. Select and obtain articles.
4. Summarize highlights from the selected articles.
5. Prepare a data analysis spreadsheet to consolidate information.

6. Create report tables.
7. Write the report text.

## **3.2 Research Methodology**

The methodology for searching and selecting the literature, includes:

- Reputable data sources (See Appendix 4)
- Search terms to include. (See Appendix 3)
- Search terms to exclude.
- Search limits (e.g., English language, studies less than 20 years old etc.).



## **APPENDIX 1: RESEARCH QUESTION**

### **Appendix 1.1: Paper Research Question**

#### **#1- “Bridging the Gap in Gender Parity in STEM education in Kenya: A comprehensive Literature Review”**

#### **Research Questions**

This review aims to answer the following four research questions

1. What’s is the **status of Gender parity in STEM education** in Kenya
2. What **intervention /projects/programs are in place** to bridge the gaps in gender parity in STEM education in Kenya.
3. What **gaps exist in the intervention /projects/programs** for Gender parity in STEM education in Kenya
4. What **recommendations to fill these gaps** in form of intervention /projects/programs for Gender parity in STEM education in Kenya

### **Appendix 1.2: Other Research Question**

## **APPENDIX 2: PAPER OUTLINE (DELIVERABLE)**

#### **“Bridging the Gap in Gender Parity in STEM education in Kenya: A comprehensive Literature Review”**

- 1. Abstract**
- 2. Introduction**
- 3. Research Questions**
- 4. Problem Overview**
- 5. Literature Review**

- 5.1 Theoretical Foundation
- 5.2 Research Question #1 Literature Review
- 5.3 Research Question #2 Literature Review
- 5.4 Research Question #3 Literature Review
- 5.5 Research Question #4 Literature Review
- 5.6 Key Gaps Identified

## 6. Methods

- 6.1 Search terms
- 6.2 Databases searched
- 6.3 Inclusion criteria
- 6.4 Exclusion Criteria

## 7. Analysis, Results & Findings

- 7.1 Analysis & Results of Research Question #1 Literature Review
- 7.2 Analysis & Results of Research Question #2 Literature Review
- 7.3 Analysis & Results of Research Question #3 Literature Review
- 7.4 Analysis & Results of Research Question #4 Literature Review

## 8. Discussion

## 9. Conclusions

## 10. Recommendations for Further work

## 11. References

## APPENDIX 3: SEARCH KEYWORDS AND PHRASES

"Girls Education"AND AND Kenya	"Professional recruitment "	AND	"Gender Diversity"	AND	STEM
"Girls Education"AND STEM AND Kenya	"STEM programs" or "STEM subjects"	AND	"Gender Diversity"	AND	AND
"Girls Education"AND STEM AND Kenya	" Digital learning" or "Smart Learning"	AND	"Gender Diversity"	AND	AND
"Girls Education"AND	Competitions	AND	"Gender Diversity"	AND	STEM AND Kenya
"Girls Education"AND	Integration	AND	"Gender Diversity"	AND	STEM AND Kenya
"Girls Education"AND Kenya	"Capacity Building"	AND	"Gender Diversity"	AND	STEM AND
"Girls Education"AND AND Kenya	"career pathways to STEM"	AND	"Gender Diversity"	AND	STEM

"Girls Education"AND AND Kenya	"Competency Based Curriculum"	AND	"Gender Diversity"	AND	STEM		
"Girls Education"AND Kenya	"current curriculum "	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND Kenya	"innovation STEM Hubs"	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND AND Kenya	"Integrating Technology tools"	AND	"Gender Diversity"	AND	STEM		
"Girls Education"AND Kenya	"Learners Achievement "	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND Kenya	"Learners Experience"	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND AND Kenya	"Out of school STEM programs "	AND	"Gender Diversity"	AND	STEM		
"Girls Education"AND Kenya	"problem solving"	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND Kenya	"Resource allocations"	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND Kenya	"Role model networking"	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND	"staff training"	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	"stakeholder buy ins"	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND Kenya	"STEM perceptions"	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND	Advantages	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Culture	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Disadvantages	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Failed	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Failure	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Gaps	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Inequality	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	infrastructures	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Interventions	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Merits	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Outcomes	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND	Performance	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	Recommendations	AND	"Gender Diversity"	AND	STEM	AND	
"Girls Education"AND	Weakness	AND	"Gender Diversity"	AND	STEM	AND	Kenya
"Women Education" STEM AND Kenya	AND	"Professional recruitment "	AND	"Gender Diversity"	AND		
"Women Education" AND STEM	AND	"STEM programs" or "STEM subjects"	AND	"Gender Diversity"			
"Women Education" AND STEM	AND	" Digital learning" or "Smart Learning"	AND	"Gender Diversity"			
"Women Education" Kenya	AND	Competitions	AND	"Gender Diversity"	AND	STEM	AND
"Women Education" Kenya	AND	Integration	AND	"Gender Diversity"	AND	STEM	AND
"Women Education" AND Kenya	AND	"Capacity Building"	AND	"Gender Diversity"	AND	STEM	

"Women Education" STEM AND Kenya	AND	"career pathways to STEM"	AND	"Gender Diversity"	AND		
"Women Education" STEM AND Kenya	AND	"Competency Based Curriculum"	AND	"Gender Diversity"	AND		
"Women Education" AND Kenya	AND	"current curriculum "	AND	"Gender Diversity"	AND	STEM	
"Women Education" AND Kenya	AND	"innovation STEM Hubs"	AND	"Gender Diversity"	AND	STEM	
"Women Education" STEM AND Kenya	AND	"Integrating Technology tools"	AND	"Gender Diversity"	AND		
"Women Education" AND Kenya	AND	"Learners Achievement "	AND	"Gender Diversity"	AND	STEM	
"Women Education" AND Kenya	AND	"Learners Experience"	AND	"Gender Diversity"	AND	STEM	
"Women Education" STEM AND Kenya	AND	"Out of school STEM programs "	AND	"Gender Diversity"	AND		
"Women Education" AND Kenya	AND	"problem solving"	AND	"Gender Diversity"	AND	STEM	
"Women Education" AND Kenya	AND	"Resource allocations"	AND	"Gender Diversity"	AND	STEM	
"Women Education" AND Kenya	AND	"Role model networking"	AND	"Gender Diversity"	AND	STEM	
"Women Education" Kenya	AND	"staff training"	AND	"Gender Diversity"	AND	STEM	AND
"Women Education" AND Kenya	AND	"stakeholder buy ins"	AND	"Gender Diversity"	AND	STEM	
"Women Education" AND Kenya	AND	"STEM perceptions"	AND	"Gender Diversity"	AND	STEM	
"Women Education" Kenya	AND	Advantages	AND	"Gender Diversity"	AND	STEM	AND
"Women Education"	AND	Culture	AND	"Gender Diversity"	AND	STEM	AND Kenya
"Women Education" Kenya	AND	Disadvantages	AND	"Gender Diversity"	AND	STEM	AND
"Women Education"	AND	Failed	AND	"Gender Diversity"	AND	STEM	AND Kenya
"Women Education"	AND	Failure	AND	"Gender Diversity"	AND	STEM	AND Kenya
"Women Education"	AND	Gaps	AND	"Gender Diversity"	AND	STEM	AND Kenya
"Women Education" Kenya	AND	Inequality	AND	"Gender Diversity"	AND	STEM	AND
"Women Education" Kenya	AND	infrastructures	AND	"Gender Diversity"	AND	STEM	AND
"Women Education" Kenya	AND	Interventions	AND	"Gender Diversity"	AND	STEM	AND
"Women Education"	AND	Merits	AND	"Gender Diversity"	AND	STEM	AND Kenya
"Women Education" Kenya	AND	Outcomes	AND	"Gender Diversity"	AND	STEM	AND
"Women Education" Kenya	AND	Performance	AND	"Gender Diversity"	AND	STEM	AND
"Women Education" AND Kenya	AND	Recommendations	AND	"Gender Diversity"	AND	STEM	
"Women Education" Kenya	AND	Weakness	AND	"Gender Diversity"	AND	STEM	AND
			STEM	AND			

"Girls Education"AND AND Kenya	"Professional recruitment "	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND STEM AND Kenya	"STEM programs" or "STEM subjects"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND STEM AND Kenya	" Digital learning" or "Smart Learning"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND	Competitions	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND	Integration	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	"Capacity Building"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND AND Kenya	"career pathways to STEM"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND AND Kenya	"Competency Based Curriculum"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	"current curriculum "	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	"innovation STEM Hubs"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND AND Kenya	"Integrating Technology tools"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	"Learners Achievement "	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	"Learners Experience"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND AND Kenya	"Out of school STEM programs "	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	"problem solving"	AND	"Gender Inequality"	AND	STEM	AND	Kenya
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"Girls Education"AND	Performance	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND Kenya	Recommendations	AND	"Gender Inequality"	AND	STEM	AND	Kenya
"Girls Education"AND	Weakness	AND	"Gender Inequality"	AND	STEM	AND	Kenya
			STEM	AND			

"Women Education" STEM AND Kenya	AND	"Professional recruitment "	AND	"Gender Inequality"	AND		
"Women Education" AND STEM Kenya	AND	"STEM programs" or "STEM subjects"	AND	"Gender Inequality"			
"Women Education" AND STEM Kenya	AND	" Digital learning" or "Smart Learning"	AND	"Gender Inequality"			
"Women Education" Kenya	AND	Competitions	AND	"Gender Inequality"	AND	STEM	AND
"Women Education" Kenya	AND	Integration	AND	"Gender Inequality"	AND	STEM	AND
"Women Education" AND Kenya	AND	"Capacity Building"	AND	"Gender Inequality"	AND	STEM	
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"Women Education" STEM AND Kenya	AND	"Competency Based Curriculum"	AND	"Gender Inequality"			AND
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"Women Education" STEM AND Kenya	AND	"Integrating Technology tools"	AND	"Gender Inequality"			AND
"Women Education" AND Kenya	AND	"Learners Achievement "	AND	"Gender Inequality"	AND	STEM	
"Women Education" AND Kenya	AND	"Learners Experience"	AND	"Gender Inequality"	AND	STEM	
"Women Education" STEM AND Kenya	AND	"Out of school STEM programs "	AND	"Gender Inequality"			AND
"Women Education" AND Kenya	AND	"problem solving"	AND	"Gender Inequality"	AND	STEM	
"Women Education" AND Kenya	AND	"Resource allocations"	AND	"Gender Inequality"	AND	STEM	
"Women Education" AND Kenya	AND	"Role model networking"	AND	"Gender Inequality"	AND	STEM	
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"Women Education" Kenya	AND	Inequality	AND	"Gender Inequality"	AND	STEM	AND
"Women Education" Kenya	AND	infrastructures	AND	"Gender Inequality"	AND	STEM	AND

"Women Education" Kenya	AND	Interventions	AND	"Gender Inequality"	AND	STEM	AND
"Women Education"	AND	Merits	AND	"Gender Inequality"	AND	STEM	AND Kenya
"Women Education" Kenya	AND	Outcomes	AND	"Gender Inequality"	AND	STEM	AND
"Women Education" Kenya	AND	Performance	AND	"Gender Inequality"	AND	STEM	AND
"Women Education" AND Kenya	AND	Recommendations	AND	"Gender Inequality"	AND	STEM	
"Women Education" Kenya	AND	Weakness	AND	"Gender Inequality"	AND	STEM	AND

## APPENDIX 4: DATABASES TO BE SEARCHED

The following 36 journals are accessible to some good degree through our library. 5 of the most fruitful databases (five of the ones with a green tick) will be considered in the analysis. Papers that will be locked in this database will not be considered.

SELECTED- YES/NO	Database Name
	1 IMF elibrary
✓	2 Informs
✓	3 JSTOR
	4 Kenya Information Preservation Society
	5 Kluwer Online
	6 Liebert Online
	7 Liverpool Journals
	8 Lyell Collection
✓	9 Mathematical Science Publishers
	10 MSD Manuals
	11 Nature
	12 OECD iLibrary
	13 Online English Dictionary
	14 Online Wiley
	15 Oxford Journals
✓	16 Palgrave Journals
	17 Project Muse
	18 PsycArticles
	19 Public Domain Resources
	20 Research4Life
	21 Research Methods Supercourse
	22 Royal Society of Chemistry Journals
✓	23 Sage e-Journals
	24 Sage Research Methods & 2020 Cases
✓	25 Science Direct
	26 Springer eBooks
✓	27 Taylor & Francis Journals
	28 Taylor and Francis e-Books
	29 The Kenya Law
	30 The Teaching Professor
	31 Times Higher Education
	32 University of California Press
✓	33 United Nations iLibrary
	34 WHED
✓	35 World Bank Databases
	36 Ask a Librarian for Articles

## APPENDIX 5 : PROJECT CONTRACT TEMPLATE

Date.....

Prof Jimmy Macharia, PhD  
Associate Professor of Information Systems & Technology,  
Department of Computing  
School of Science & Technology,  
United States International University - Africa  
Off USIU Road, Off Thika Road (Exit 7),  
P. O. Box 14634 - 00800,  
Nairobi, Kenya, East Africa.

Dear Prof Macharia

**SUBJECT: Letter of Award: “Bridging the Gap in Gender Parity in STEM education in Kenya: A comprehensive Literature Review”**

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This Letter of Award, (the” Letter”) is in reference to our video conference discussion on the above subject matter on Saturday 22 February 2020 and the subsequent discussions and/or related correspondence between us. thereof from which you submitted a project concept note for consideration dated 29 February 2020.

Diversity Education Institute (DEI) (“**Organization**”) has today finalized the review and approval of your project concept note and does hereby award you (Prof Jimmy Macharia, PhD) (“**Contractor**”) the Contract for the provision of a research paper entitle “Bridging the Gap in Gender Parity in STEM education in Kenya: A comprehensive Literature Review” (the “**Services**”), subject to the following:

- 1 Finalization and execution of the agreement, having been reached between Diversity Education Institute (DEI) and yourself based on signed and approved project concept note.
- 2 This Letter constitutes a commitment for Diversity Education Institute (DEI) to provide facilitation funds and other necessary actions for smooth execution of this assignment.
- 3 In this commitment by Diversity Education Institute (DEI), the main responsibilities include:
  - Review and approval of the concept one submitted by contractor for this project
  - Provide 50% of the \$2000 agreed facilitation funds upon signing the concept note and providing the offer letter to the contractor.
  - Plan to review the paper when submitted on timely manner, and give any (feedback) as scheduled for its conclusion and project closure.
  - If DEI needs conference paper presentation, plan to meet conference registration and any other associated costs.

4. The Contractor obligations include:

- Prepare and submit a comprehensive project concept note for review and approval
- Upon receiving the award letter, Commence/proceed with the project activities as generally described in the approved project concept note.
- Deliver the research paper titled “Bridging the Gap in Gender Parity in STEM education in Kenya: A comprehensive Literature Review”

The Letter is governed by and shall be construed in accordance with the laws of Kenya and any dispute arising out of or in connection with this Letter shall be subject to the exclusive jurisdiction of the Kenyan courts.

The parties agree that this Letter will be considered a legal document and shall be considered confidential until such time that the parties have finalized and executed the contract. The executed contract shall replace and supersede the terms of this Letter.

The Letter is addressed to you in duplicate. Please signify acceptance of its terms by signing the duplicate and returning it to Mr Alphonse Faruma.

We look forward to working with you on this mutually beneficial and successful project.

..... Date .....

Alphonse Faruma

**CEO - Diversity Education Institute (DEI)**

..... Date .....

Prof Jimmy Macharia, PhD

**Contractor**