

CUSTECH Institutional Based Research Grants								
Batch	Funding Period	Projects						
Batch 1	2021–2023	11						
Batch 2	2021–2023	21						
Batch 3	2025	30						
Total		62						
Overall SN	Batch	Funding Period	SN Within Batch	Principal Investigator	Title of Project	Department of PI	Link to Publication	Status
1	1	2021–2023	1	Dr. Sunday Yomi	Impact of Digital Mathematics Laboratory on Senior School Students Entrepreneurship Skills in Kogi State	Science Education		Completed

2	1	2021–2023	2	Dr. Gbenga A. Adebayo	Technology Trend in Accounting and Service Productivity Evidence from Listed International Banks in Nigeria	Accounting		Completed
3	1	2021–2023	3	Dr. Owoleke V. Amina	Bioremediation of Toxic Metals from Polluted Oil Using Arburcular Mycorrhizal Fungi	Biology		Completed
4	1	2021–2023	4	Dr. Oladipe T. Tope	Utilization of Natural Oils on Respiratory Pathogens a Less Toxic Alternative to Paediatric Cough and Catarrh	Biochemistry		Completed
5	1	2021–2023	5	Dr. Omonile Jacob Funsho	Application of Machine Learning Stacking Ensemble Method for Epithermal Gold Exploration Using Geospatial Data in Kogi, Nigeria	Physics		Completed
6	1	2021–2023	6	Dr. Oluwatoyin Khadijat	Groundwater Potentials Assessment of Okene and Its Environ	Applied Geophysics		Completed
7	1	2021–2023	7	Mr. Yahaya Jibrin Danjuma	Unsteady Hydromagnetic Flow of Dusty Fluids in an Oscillating Porous Cylinders	Mathematics		Completed
8	1	2021–2023	8	Mr. Abubakar Fahad	Delineation of the Mineralization Within North Central Nigeria	Geoscience		Completed
9	1	2021–2023	9	Engr. Dr. Joseph Isaac Adekunle	Development of Co-Digester for the Conversion of Cashew Apple Residue and Animal Dung to Combustible Biogas for Domestic Cooking and Power Generation	Chemical Engineering		Completed
10	1	2021–2023	10	Dr. Motunrayo Aiyegbusi	Profiling Aflatoxin Contamination of Rice Along the Value Chain in Rice Producing Communities in Kogi State	Biochemistry		Completed
11	1	2021–2023	11	Dr. Daniel O. Apeh	Impact of Aflatoxin Exposure or Anthropometric Indices, Micronutrient Deficiencies and Academic Performance Among School Pupils in Osara Community, Kogi State	Biochemistry		Completed

12	2	2021–2023	1	Mr. Ekeyi Yusuf	Development of Alternative Treatment Regimimen for Benign Prostatic Hyperplasia (BPH) Using <i>Jatropha Tanjorensis</i> and <i>Cordifolia</i> Plants	Biochemistry	https://www.tjnpr.org/index.php/home/article/view/7842	Completed
13	2	2021–2023	2	Dr. Olukanni Emm Seyi	Enhancing Radio Wave Propagation Models Using Machine Learning	Physics	https://rans.nspsc.org.ng/index.php/pnspsc/article/view/147	Completed
14	2	2021–2023	3	Dr. Adeboye Muhammed Mustapha	Molecular Detection of <i>E. Coli</i> O157:H7 from Well Waters in Okehi and Adavi Local Government Areas of Kogi State	Microbiology	https://www.cujostech.com.ng/index.php?mno=280579	Completed
15	2	2021–2023	4	Dr. Areh Ekundayo Timi	The Role of Tyrosinase in Hyperpigmentation Disorders: a Focus on in-Vitro and in-Silico Studies on Natural Inhibitors from <i>Calotropis Procera</i>	Chemistry	http://dx.doi.org/10.5455/CUJOSTECH.251003	Completed
16	2	2021–2023	5	Mr. Yahaya Muhammed Kabir	Treatment of Industrial Wastewater Using Bentonite-Based Titanium Zinc	Chemistry	https://josrar.esrgngr.org	Completed
17	2	2021–2023	6	Mr. Ibrahim Jimoh	Appraisal of Metal Oxides Nanocomposites as Fuel Additives for Improving Performance Combustion and Emission Parameters of Diesel Engine	Chemistry	https://www.ajol.info/index.php/wojast/article/view/310253	Completed
18	2	2021–2023	7	Dr. Sumaila Abdulmumuni	Kaolin-Based TiO ₂ /CuO Nanocompsites for for the Treatment of Mining Wastewater	Chemistry	www.fuoye.edu.ng	Completed
19	2	2021–2023	8	Mr. Nicholas Omatule U.	Utilization of Avocado Waste for Adsorptive Treatment of Waste Water and Immunomodulation for the Promotion of Clean Environment and Well-being	Chemistry	https://doi.org/10.5455/CUJOSTECH.251006	Completed
20	2	2021–2023	9	Dr. Fatoye Felix Bamidele	Geochemical and Quality Assessment of Ikpabacha Coal in the Northern Anambra Basin of Nigeria	Geology	https://africanscholarpub.com/ajsitr/article/view/598	Completed
21	2	2021–2023	10	Dr. Mrs. Adesewa O. Aina	Assessment of Health Risks and Development of Mitigation Strategies for Pesticide Residues in Grains and Vegetables in Adavi Local Government Area, Kogi State	Biology	https://doi.org/10.33003/frscs-2025-0402/11	Completed

22	2	2021–2023	11	Dr. Isah Muhammed Haruna	Assessment of Irrigation Water Quality for Crop Production in Omi (Kame) Dam Irrigation Field	Biology	https://dx.doi.org/10.5455/CUJOSTECH.2501010	Completed
23	2	2021–2023	12	Mr. Ameh Samuel Monday	Water Quality Assessment and Potential Health Risk of Heavy Metals Consumption of Clarias Gariepinus in Omi Reservoir, Yagba West Local Government Area, Kogi State	Biology	https://doi.org/10.5455/CUJOSTECH.251002	Completed
24	2	2021–2023	13	Dr. Samuel Adamariko A.	A Quintuple Approach to Fixed Point Theorems for Cauchy Spaces	Statistics	https://doi.org/10.5455/CUJOSTECH.231014	Completed
25	2	2021–2023	14	Dr. Ahmed Jimoh	Mathematical Modeling on Unsteady Blood Flow Contractive-Type Mixed Monotone Mappings in Unsteady Heart Transfer Through a Stenosed Artery with Hematocrit and Slip Velocity Effects.	Mathematics	https://stmjournals.com/rrdms	Completed
26	2	2021–2023	15	Mr. Yunisa Sunday	A Web-Based Lecture Delivery Modules and Students' Database Privacy Using Strong Encryption Schemes and Blockchain Techniques for Tertiary Institutions in Kogi State	Computer Science	https://ijaem.net/issue_dcp/A%20Web-Based%20Lecture%20Students%20Database%20Privacy%20Using%20Strong%20Encryption%20Techniques%20for%20Tertiary%20Institutions%20in%20Kogi%20State	Completed
27	2	2021–2023	16	Dr Ajoze A. Zubair	Development of Web-Based Academic Publication Repository Information System for Confluence University of Science and Technology, Osara	Computer Science	https://doi.org/10.5455/CUJOSTECH.251016	Completed
28	2	2021–2023	17	Engr. Jethro M. Adebola	Geochemical Analysis of Obajana Marble and Its Potential Industrial and Domestic Applications	Mining Engineering	https://doi.org/10.37933/nipes/7.2.2025.28	Completed
29	2	2021–2023	18	Dr. Shehu S. Abdulazeez	Development of Mining Engineering Skills Through Ethno-Mathematics Activities by Senior Secondary Schools Students in Kogi-Central, Nigeria	Mining Engineering	https://ijrsm.com/index.php/journal-ijrsm/article/view/846	Completed
30	2	2021–2023	19	Dr Fati Aliyu Ohiare	Human Development Index Impact Assessment of Selected Community Empowerment Programmes in in Adavi and Okehi Local Government of Kogi State	General Studies	https://hspublishing.org/ASRP/issue/view/96	Completed
31	2	2021–2023	20	Haruna Hajarot Ozozoma	Impact of Ethno-Chemistry Activities on Senior Secondary School Students Acquisition of Entrepreneurship Skills in Kogi State, Nigeria	Science Education	http://ijrsm.com/index.php/journal-ijrsm/article/view/853	Ongoing

32	2	2021–2023	21	Mr. Isah Usman Muazu	Social Media Usage on Secondary School Physics Students' Learning Outcomes as Determinant of Students Setting Up Digital Marketing Platform in Kogi State, Nigeria	Technology Education	https://custechchijoe.org.ng/index.php/custechchijoe/article/view/150	Ongoing
33	3	2025	1	Dr. Omale Ileada Joshua	A Multi-Disciplinary Approach to Undergraduate Education in Nigeria, a Study of CUSTECH, Osara and Comparative Insight from Selected Universities	General Studies	https://ejournals.org/bje/vol14-issue-7-2026/repositioning-general-studies-for-educational-development	Ongoing
34	3	2025	2	Dr. Hazarat Maimuna Musa	Administrative Practices and Digital Integration in Science Education Within Kogi State Universities	Science Education	https://akasa.com.ng/ojs/index.php/journal/article/view/636	Ongoing
35	3	2025	3	Mr. Abdul Kerim	The Impact of Internal Control System on Cyber Crimes Prevention of Deposit Money Banks in Nigeria	Accounting	https://africanscholarpub.com/ajbdmr/article/view/1322	Ongoing
36	3	2025	4	Engr. Ayoola Johnson Oluwaseyi	An Evaluation of Community Development Project on the Vulnerable Groups in Kogi Central, Kogi State, Nigeria	Mining Engineering	https://parj.africa/ajdevs_commdev/en/article/view/an-evaluation-of-community-development-project	Ongoing
37	3	2025	5	Dr. Sule Omeiza Bashiru	Application of Survival Regression Model in Estimating the Survival Time of Breast Cancer Patients	Statistics	https://jobasrfudutsinma.com/index.php/ojs-files/article/view/531/168	Ongoing
38	3	2025	6	Dr. Abdulazeez Monday Abdurahman	Bio-Genetic Synthesis and Dye Degradation Efficiency of MgO-Modified ZnO Photocatalyst	Chemistry	https://cemrj.com/index.php/volumes/article/view/272	Ongoing
39	3	2025	7	Dr. Ibrahim Aminu	Climatic-Weighted Bayesian Spatial Modelling of Childhood Malnutrition in Nigeria	Mathematics	https://fjs.fudutsinma.edu.ng/index.php/fjs/article/view/5679	Ongoing
40	3	2025	8	Mr. Lateef Caleb Umoru	Computer Simulation of Damp-Non Uniform Rayleigh Beam Resting on Bi-Parametric Foundation Under Concentrated and Distributed Loads with Variable Axial Force	Computer Science	https://custechchijoe.org.ng/index.php/custechchijoe/article/view/276	Ongoing
41	3	2025	9	Engr. Dr. Joseph Isaac Adekunle	Design, Fabrication and Pilot Testing of a Processing Plant to Produce Solid Fuel from Maize, Shea Butter and Cassava Waste	Chemical Engineering	https://fjs.fudutsinma.edu.ng/index.php/fjs/article/view/5861	Ongoing

42	3	2025	10	Mr. Oludare Tayo Timon	Development and Optimization of Anti-Bacteria Ointment from Cleome Viscos Linn for the Treatment of Bacteria Skin Diseases (Impetigo and Folliculitis)	Biology		Ongoing
43	3	2025	11	Mr. Akoh Hillary Ilemona	Development Hierarchical Zeolite Catalyst from Rice Husk for Biofuel Application via Insitu-Transesterification of Osteoglosid Scale	Chemical Engineering	https://www.sciencedirect.com/science/article/pii/S3050724326000203	Ongoing
44	3	2025	12	Dr. Daniel O. Apeh	Development of a Python-Base Diagnostic Test Results Interpretation Tool for Biomedical Applications	Biochemistry		Ongoing
45	3	2025	13	Dr. Ufedo Rubi Awodi	Development of Bio Solvent from Kenaf Fiber via Esterification for Crude Oil Spill Clean Up	Chemistry		Ongoing
46	3	2025	14	Dr. Abraham Ayegba Alfa	Development of Dual-Biometric Recognizance Based Staff Attendance Management System for Confluence University of Science and Technology, Osara	Computer Science	https://fjs.fudutsinma.edu.ng/index.php/fjs/article/view/6030	Ongoing
47	3	2025	15	Engr. Momoh Iliasu Onimisi	Development of Machine Learning Base with Hybrid Vector Support and Smell Agents Algorithm for Oil and Gas Pipe Link Detection and Location	Electrical and Electronics Engineering	https://atbufstejoste.com/index.php/joste/article/view/2987	Ongoing
48	3	2025	16	Mr. Ibrahim Yahaya Ogrima	Development of rGO from Cornstalk-Derived Nanomaterial Integrated on TiO2 Photonode for an Enhanced Dye-Sensitized Solar Cell Device	Physics		Ongoing
49	3	2025	17	Dr. Abah Onuche-Ojo Isaiah	Effect of Processing Method on the Quality, Cyanogenic Glycoside and Heavy Metals Content of Fermented Dry Cassava Sold in Selected Market in Kogi State	Biology		Ongoing
50	3	2025	18	Engr. Abel Ojimah	Emission Analysis of Tricycle Using Gasoline and Compressed Natural Gas (CNG)	Mechanical Engineering	https://www.ajol.info/index.php/dujopas/article/view/334189	Ongoing
51	3	2025	19	Dr. Upahi Lukman	Evaluation of Carbon Sequestration Potentials of Some Tree Species Along Lokoja-Okene Road for Climate Change Resilience	Biology	https://www.njbls.fud.edu.ng/index.php/njbls/article/view/92	Ongoing

52	3	2025	20	Dr. Ruth Foluke Aminu	Formation and Antimicrobial Evaluation of Wound Healing Gel of African Giant Land Snail (<i>Achatina Fulica</i>) Shell for Treatment of Potentially Infected Wounds	Microbiology	https://rejist.com.ng/index.php/home/article/view/328	Ongoing
53	3	2025	21	Mr. Abubakar Fahad	Geospatial and Environmental Mapping of CUSTECH External Environment: Topography, Hazards, and Settlement Dynamics for Sustainable Campus Planning	Geology		Ongoing
54	3	2025	22	Dr. Sadiq Aabdulazeez Anakobe	Homogenizing Computer-Based Medical Record Database System in Primary Healthcare Centers in Adavi, Okehi and Okene Local Government Areas of Kogi State	Library Science		Ongoing
55	3	2025	23	Mrs. Sadiku Jamilat Oyiza	Integrating Moringa, Activated Charcoal, and Solar Disinfection for Safe Rural Water in Kogi State	Microbiology	https://academianspublishers.org/article/drinking-water-quality-integrating-moringa-activated-charcoal-solar-disinfection	Ongoing
56	3	2025	24	Mr. Isaac Adaji	Modelling Transient Double-Diffusive Convection with Viscous Dissipation and Internal Heat Generation in a Vertical Channel	Mathematics		Ongoing
57	3	2025	25	Engr. Omeiza James Momoh	Optimization and Biodegradable Plastic Development from Cassava Starch and Chitosan for Food Packaging	Chemical Engineering		Ongoing
58	3	2025	26	Mrs. Yahaya Rukayat Avosuahi	Parasitological Evaluation of Drinking Water Sources in Osara, Adavi, Kogi State, Nigeria	Biology		Ongoing
59	3	2025	27	Mr. Abdulsalami Momohjimoh	Predictions and Mapping Flood Hazards in Kabba, Kogi State Through Spatiotemporal Modelling and Machine Learning	Geophysics/Physics		Ongoing
60	3	2025	28	Mr. Salifu Francis Ugbede	Regional Forecasting Equatorial Spread F (ESF) at Lower Latitude Station Using Deep Neural Networks	Physics		Ongoing
61	3	2025	29	Dr. Sa'adatu Abdulsalam	Risk Assessment of Heavy Metals in the Soil and Medicinal Plants Growing Around Obajana Cement Factory, Kogi State	Chemistry	https://njbls.fud.edu.ng/index.php/njbls/article/download/88/63/762	Ongoing

62	3	2025	30	Dr. Danga Onimisi Abdulmalik	The Application of Integrated Geophysical, Geotechnical Studies, Multivariate Statistics and Machine Learning for Optimizing the Predictions of Sub Soil Engineering Properties: Application	Geology		Ongoing
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