

CURRICULUM VITAE



1. PERSONAL DATA

- i. **Name:** Sunday Albert LAWAL,
- ii. **Date of Birth:** 15th April, 1965
- iii. **Sex** Male
- iv. **LGA/State** Okehi/Kogi
- v. **Nationality:** Nigerian
- vi. **Marital Status:** Married
- vii. **Number of Children:** Four (25, 23, 20, 17)
- viii. **Languages Spoken:** Ebira, English and Yoruba
- ix. **Telephone (Mobile)** +2348036578168
- x. **Current Postal Address:** Mechanical Engineering Department,
Federal University of Technology PMB 65 Minna
- xi. **Current E-mail Address:** lawalsunday@futminna.edu.ng

2. EDUCATIONAL INSTITUTIONS ATTENDED AND QUALIFICATIONS

S/No	Institutions Attended	Dates	Qualifications
1	Universiti Malaya, Malaysia	2010-2013	Doctor of Philosophy (PhD)
2	Federal University of Technology, Minna	1999- 2001	Masters of Engineering (M. Eng)
3	Federal University of Technology, Minna	1991/1992 - 1995/1996	Bachelor of Engineering (B. Eng)
4.	Federal Polytechnic, Bida.	1988-1990	National Diploma (ND)
5.	ECWA Secondary School, Igbaja.	1983-1985	West African Examination Certificate (WAEC)
6.	Abdul Aziz Attah Memorial College, Okene.	1980-1982	Transfer
7.	OLSMB Primary School, Iddo –Gbedde	1978-1980	First School Leaving Certificate (FSLC)
8.	ECWA LGEA Primary School, Ejiba	1973-1978	Transfer

3. PRESENT EMPLOYMENT AND WORK EXPERIENCE

S/No	Name of Organization	Date	Rank
1	Federal University of Technology, Minna	2020 - Date	Professor
2	Federal University of Technology, Minna	2017 - 2020	Associate Professor
3	Federal University of Technology, Minna	2014- 2017	Senior Lecturer

4.	Federal University of Technology, Minna	2011-2014	Lecturer I
5.	Federal University of Technology, Minna	2007- 2011	Lecturer II
6.	Federal University of Technology, Yola (Now Modibbo Adama University of Technology Yola)	2005-2007	Asst. Lecturer
7	Taraba State Polytechnic, Jalingo	30 th May 1997- 20 th October 1998	Lecturer III
8	NNPC/ PPMC Escravos Terminal, Warri	May – October 1995	Industrial Trainee

4. PROFESSIONAL MEMBERSHIP

S/NO	NAME OF PROFESSIONAL ASSOCIATION
1.	Corporate Member, Nigerian Institution of Mechanical Engineers (NIMechE), Membership No: L00052
2.	Corporate Member, Nigerian Society of Engineers (NSE). Membership No. 19846
3.	Registered Engineer, Council for the Regulation of Engineering in Nigeria (COREN) Registration No: R18,606
4.	Life Member, Malaysian Tribology Society (MTS) Registration No: L0218

5. PUBLICATION

5.1 Journal – International

S/No	Journal Details
1	Benjamin I. Attah, Sunday A. Lawal , Katsina C. Bala, Omolayo M. Ikumapayi, Oyewole Adedipe, Raju P. Mahto, Esther T. Akinlabi (2023) <i>Optimization and numerical analysis of friction stir welding parameters of AA7075-T651 and AA 1200-H19 using tapered tool</i> , International Journal on Interactive Design and Manufacturing (IJIDeM) https://doi.org/10.1007/s12008-023-01329-1

2	Oyewole Adedipe, Victor Sunday Aigbodion, Nicholas Agbese Agbo, Sunday Albert Lawal , Oyebola Wahab Akanni Oyeladun, James Baba Mokwa, Emmanuel Toi Dauda (2023), <i>Explicit microstructural and electrochemical study of value-added carburized mild steel with coconut shell ash and CaCO_3 nanoparticles derived from periwinkle shell</i> , Chemical Data Collections https://doi.org/10.1016/j.cdc.2023.101028
---	---

3	Sunday A. Lawal , Rasaq O. Medupin, Kelvin O. Yoro, Uzoma G. Okoro, Oyewole Adedipe, Joseph Abutu, Jimoh O. Tijani, Ambali S. Abdulkareem, Mohammed B. Ndaliman Patrick T. Sekoai, Tien C. Jen, (2023), <i>Nanofluids and their application in carbon fibre reinforced plastic: A review of properties, preparation and usage</i> . Arabian Journal of Chemistry doi: https://doi.org/10.1016/j.arabjc.2023.104908
4	Oyewole Adedipe, Victor Sunday Aigbodion, Nicholas Agbese Agbo, Sunday Albert Lawal , Oyebola Wahab Akanni Oyeladun, James Baba Mokwa, Emmanuel Toi Dauda (2023) <i>Unveiling high-performance carburized Mild steel using coconut shell ash and CaCO₃ nanoparticles derived from periwinkle shell</i> , The International Journal of Advanced Manufacturing Technology, https://doi.org/10.1007/s00170-023-11399-w
5	Eyitayo Olatunde Olakanmi, Shaik. Hoosain; Sunday Albert Lawal ; Sisa Lesley Pityana (2023), <i>Process and materials design via statistical modeling for inconel-625/tungsten carbide wear-resistant composite coatings fabricated by laser direct metal deposition technique</i> . The International Journal of Advanced Manufacturing Technology, 126, 635 -658. https://doi.org/10.1007/s00170-023-11156-z
6	Benjamin I. Attah, Sunday A. Lawal , Katsina C. Bala, Omolayo M. Ikumapayi, Suryakanta Sahu, Md Iqbl Perwej, Esther T. Akinlabi (2022), Effects of Material Placement and Speed of Tool Rotation on Tensile Strength of dissimilar friction stir welded AA7075 and AA1200-H19 Aluminium Alloys, <i>Materials Today Proceedings</i>
7	Charles Chinedu Irechukwu, Reyazul Haque Khan, Joseph Abutu, Sunday Albert Lawal and Nicholas Oliver Namessan (2021), Effect of tungsten inert gas welding parameters on the performance of AISI 304 alloy steel using multi-response optimization technique, <i>Welding International</i> , 35 (1-3) 45-58. https://doi.org/10.1080/09507116.2021.1958660
8	Mamman Rabi Onoruoiza, Oyewole Adedipe, Sunday Albert Lawal , Oluwafemi Ayodeji Olugboji & Victor Chiagozie Nwachukwu (2021), Analysis of offshore wind energy potential for power generation in three selected locations in Nigeria, 14(3) 774-789, <i>African Journal of Science, Technology, Innovation and Development</i> , https://doi.org/10.1080/20421338.2021.1899760
9	Benjamin I. Attah, Sunday A. Lawal , Esther T Akinlabi and Katsina C. Bala (2021) Evaluation of mechanical properties of dissimilar aluminium alloys during friction stir welding using tapered tool, 8 (1909520) <i>Cogent Engineering</i> , 8:1, 1909520, DOI: 10.1080/23311916.2021.1909520
10	Awode Emmanuel Imhanote, Abolarin Matthew Sunday, Lawal Sunday Albert , Adedipe (2020), Performance Evaluation of Jatropa Seed Oil and Mineral Oil-Based Cutting Fluids in Turning AISI 304 Alloy Steel, <i>International Journal of Engineering Materials and Manufacture</i> 5(3) 85-97, https://doi.org/10.26776/ijemm.05.03.2020.03
11	Sathish Kumar Tamil Vanan · Ezutah Udoncy Olugu · Chun Kit Ang · Sunday Albert Lawal , Ogboo Chikere Aja (2021) Evaluation of surface grinding of AISI 304 stainless steel using dry and compressed air cooling techniques, <i>SN Applied Sciences</i> , 3 (389) https://doi.org/10.1007/s42452-021-04395-w
12	R.A. Kazeem, D.A. Fadare, J. Abutu., S.A. Lawal , O.S. Adesina (2020) Performance evaluation of jatropa oil-based cutting fluid in turning AISI 1525 steel alloy, <i>CIRP Journal of Manufacturing Science and Technology</i> 31, 418–430

13	Abutu Joseph, Lawal Sunday Albert , Ndaliman Mohammed Baba, Lafia-Araga Ruth Anayimi and Oluleye Atinuke Modupe (2020), Tribological Properties of Friction Materials Developed from Non- Asbestos Materials using Response Surface Methodology, <i>International Journal of Engineering Materials and Manufacture</i> , 5(2) 40-49(Scopus Listed)
----	--

14	Dau Majak, Ezutah Udony Olugu , Sunday Albert Lawal (2020) Analysis of the effect of sustainable lubricants in the turning of AISI 304 Stainless Steel, <i>Procedia Manufacturing</i> 43, 495 - 502. (Scopus Listed)
15	Timothy Y. Woma, Sunday A. Lawal , Asipita S. Abdulrahman, Moses A. Olutoye (2019), Nigeria Jatropha oil as suitable basestock for biolubricant production, <i>Jurnal Tribologi</i> 23, 97-112(Scopus Listed)
16	Abutu, J., Lawal S. A. , Ndaliman, M. B., Lafia-Araga, R. A. and Abdulrahman A. S. (2019). Effects of Particle Size Distribution on the Properties of Natural-Based Composite. <i>International Journal of Engineering Materials and Manufacture</i> , 4(4), 170-177. (Scopus Listed)
17	Timothy Yakubu Woma, Sunday Albert Lawal , Asipital Salawu Abdulrahman, M.A. Olutoye and M.M Ojapah (2019) Vegetable Oil Based Lubricants: Challenges and Prospects, <i>Tribology Online</i> , 14 (2), 60 -70 (Scopus Listed)
18.	Abutu J., Lawal S. A. , Ndaliman M.B., Lafia-Araga R.A., Adedipe O. & Choudhury I. A. (2019). Production and Characterization of Brake pad developed from Coconut shell reinforcement material using Central Composite Design. <i>SN Applied Sciences</i> . 1:18. Available at https://link.springer.com/article/10.1007/s42452-018-0084-x
19.	E.O. Olakanmia, S.T. Nyadongo, K. Malikongwa, S.A. Lawal , A. Botes, S.L. Pityana (2019) Multi-variable optimisation of the quality characteristics of fiber-laser clad Inconel-625 composite coatings, <i>Surface & Coatings Technology</i> 357, 289–303 (Indexed by ISI)
20.	Abutu J., Lawal S.A. , Ndaliman M.B., Lafia-Araga R.A., Adedipe O. & Choudhury I. A. (2018). Effects of process parameters on the properties of brake pad developed from seashell as reinforcement material using grey relational analysis, <i>Engineering Science and Technology, an International Journal</i> , 21, 787–797 (Indexed by SCOPUS).
21.	Abutu J., Lawal S.A. , Ndaliman M.B. & Lafia-Araga R.A. (2018). An overview of brake pad production using non–hazardous reinforcement materials, <i>ACTA Technica Corviniensis – Bulletin of Engineering</i> Tome XI, Fascicule 3 (Indexed by SCOPUS).
22.	S.A. Lawal , I.A. Choudhury and Y. Nukman (2015). Experimental Evaluation and Optimization of Flank Wear During Turning of AISI 4340 Steel with Coated Carbide Inserts Using Different Cutting Fluids. <i>Journal of Institution of Engineers, India (Series. C)</i> 96 (1), 21 -28. (Indexed by ISI)..
23.	Sunday Albert Lawal ; Imtiaz Ahmed Choudhury; Ibrahim Ogu Sadiq and Adedipe Oyewole (2014). Vegetable - Oil Based Metalworking Fluids Research Developments For Machining Processes: Survey, Applications And Challenges. <i>Manufacturing Review</i> 1, 22. DOI: 10.1051/mfreview/2014021. (Indexed by SCOPUS).
24	Sunday Albert Lawal ; Imtiaz Ahmed Choudhury and Yusoff Nukman (2014). Evaluation of vegetable and mineral oil-in-water emulsion cutting fluids in turning AISI 4340 steel with coated carbide tools. <i>Journal of Cleaner Production</i> , 66, 610 – 618. (Indexed by ISI & Impact Factor = 4.959 & Q1).
25.	Sunday Albert Lawal (2013). A Review of Application of Vegetable Oil-Based Cutting Fluids in Machining Non-Ferrous Metals. <i>Indian Journal of Science and Technology</i> , 6 (1). 3951-3956.(Indexed by Scopus)
26.	S.A. Lawal ; I.A. Choudhury and Y. Nukman (2013). Developments in the Formulation and application of vegetable oil-based metalworking Fluids in Turning Process. <i>International Journal of Advanced Manufacturing Technology</i> , 67, (5), 1765-1776. (Indexed by ISI & Impact Factor 1.568 & Q2)

27.

Sunday Albert Lawal; Imtiaz Ahmed Choudhury and Yusoff Nukman (2013). A Critical Assessment of Lubrication Techniques in Machining Processes: A Case for Minimum Quantity

	Lubrication Using Vegetable Oil- Based Lubricant. <i>Journal of Cleaner Production</i> , 41, 210 -221. (Indexed by ISI & Impact Factor = 4.959 & Q1)
28	Sunday Albert Lawal ; Imtiaz Ahmed Choudhury and Yusoff Nukman (2012). An Assessment of the Physico-chemical Properties of Melon Seed (<i>Citrullus lanatus</i>) Oil as Base Material for Oil-in- Water Emulsion Cutting Fluid. <i>Advanced Materials Research</i> , (576) 293 -295. (Indexed by Scopus)
29.	Sunday Albert Lawal and Benjamin Iyenagbe Ugheoke (2012). Development and Performance Evaluation of Thermal Conductivity Equipment for Laboratory Uses. <i>Annals of Faculty of Engineering, Hunedoara, International Journal of Engineering</i> . Tome X Fascicule 2, 49-54. (Indexed by Scopus)
30.	S.A. Lawal ; I.A. Choudhury and Y. Nukman, (2012). Application of vegetable oil-based metalworking fluids in machining ferrous metals –A review. <i>International Journal of Machine Tools and Manufacture</i> , 52, 1- 12. (Indexed by ISI & Impact Factor = 3.315 & Q1)
31.	Sunday Albert Lawal and Ahmed Babakano A. (2011). Performance Evaluation of Palm Oil as Biodiesel. <i>Leonardo Journal of Sciences</i> , 18 (10), 115- 122. (Indexed by Scopus)
32.	Sunday Albert Lawal (2011), Computer Network Analysis of Maintenance Schedule of Hydropower Turbine. <i>Annals of Faculty of Engineering, Hunedoara, International Journal of Engineering</i> , Tome IX, Fascicule 3. 137-140. (Indexed by Scopus)
33.	Sunday Albert Lawal and Benjamin Iyenagbe Ugheoke (2010). Investigation of Alpha -Cellulose Content of Agro- Wastes Products as Alternatives for Paper Production. <i>AU Journal of Technology, Thailand</i> , 13 (4) 258-260.
34.	Matthew Sunday Abolarin, Sunday Albert Lawal and AbdulRahman Asipita Salawu (2010). Effect of Moisture Content on the Moulding Properties of River Niger Sand Using Tudun-Wada Clay as a Binder. <i>AU Journal of Technology, Thailand</i> , 13 (3), 170 -174.
35.	Emmanuel Ogo Onche; Benjamin Iyenagbe Ugheoke, Sunday Albert Lawal and Utibe Martin Dickson (2007). Effect of Rice Husk and Diatomite on the Insulating Properties of Kaolin – Clay Firebrick. <i>Leonardo Electronic Journal of Practices and Technologies</i> , 6 (11), 81-90. (Indexed by Scopus)
36	Sunday Albert Lawal , Matthew Sunday Abolarin, Benjamin Iyenagbe Ugheoke, and Emmanuel Ogo Onche (2007)., Performance Evaluation of Cutting Fluids Developed from Fixed Oils. <i>Leonardo Electronic Journal of Practices and Technologies</i> , 6 (10), 137-144. (Indexed by Scopus)

5.2 Journal - National

S/No	Journal Details
37.	Abutu J., Lawal S.A. , Lafia-Araga R.A., Ndaliman M.B. & Oluleye M. A. (2020). Microstructure and thermal analysis of brake pads developed from Asbestos -free materials, <i>Arid Zone Journal of Engineering, Technology and Environment (AZOJETE)</i> , 16(2), 375-386 (Scopus Listed)
38	Ezekiel Asuku MAYAKI, Oyewole ADEDIPE, Uzoma Gregory OKORO, Rabiun Onoruoiza MAMMAN, Sunday Albert LAWAL (2020), Assessment of Three Selected Locations in Nigeria as Offshore Windfarms Using Multi-criteria Decision Procedure. <i>ABUAD Journal of Engineering Research and Development (AJERD)</i> , 3 (1), 90-102.

39.	Uzoma G. Okoro, Oyewole Adedipe, Sunday A. Lawal and Ikechukwu A. Diugwu (2020), A Framework for Sustainable Maintenance of Offshore Energy Structures <i>FUOYE Journal of Engineering and Technology</i> , 5 (1), 2579-0625
40.	K. A. Olaiya, S. A. Lawal , A. Babawuya and O. Adedipe (2020) Parameters Optimisation of Energy Consumption in Turning of AISI 304 Alloy Steel, <i>Nigerian Journal of Technology (NIJOTECH)</i> 39(2). 452 – 463.
41.	S. I. Hassan, S. A. Lawal, K. O. Adeyemi and A. A. Adamu (2019), Cotton Seed Bio-Based Metal Working Fluid For Sustainable Machining Operation <i>Arid Zone Journal of Engineering, Technology and Environment</i> . 15(4):1004-1012 (Scopus Listed)
42.	Agbonoga, E. A, Adedipe O., Okoro U.G, Usman F.J., Obanimomo K.T, Lawal, S. A (2020), Effect of Process Parameters on the Surface Roughness and Kerf Width of Mild Steel during Plasma Arc Cutting Using Response Surface Methodology, <i>FUOYE Journal of Engineering and Technology</i> ,5(1) 2579-0625.
43.	K. A. Olaiya, S. A. Lawal , A. Babawuya and O. Adedipe (2020), Parameters Optimisation of Energy Consumption in Turning of AISI 304 Alloy Steel, <i>Nigerian Journal of Technology (NIJOTECH)</i> 39(2), 452 – 463
44.	J. B. Mokwa, S. A. Lawal , M. S. Abolarin and K. C. Bala (2019), Characterization and Evaluation of Selected Kaolin Clay Deposits in Nigeria for Furnace Lining Application, <i>Nigerian Journal of Technology (NIJOTECH)</i> , 38, (4), 936 – 946 (Scopus Listed)
45.	S. O. Areo, R. H. Khan, M. B. Ndaliman and S. A. Lawal (2019) Evaluation Of Some Process Parameters For Production Of Investment Bar Castings, <i>Nigerian Journal of Technology (NIJOTECH)</i> , 38, (4), 965 – 973. (Scopus Listed)
46.	Ike, T. M., Adedipe, O., Lawal, S. A. , Abolarin M. S. and Olugboji O. A (2019). Investigation of the Mechanical and Microstructural Properties of Welded API X70 Pipeline Steel. <i>Arid Zone Journal of Engineering, Technology and Environment</i> . 15 (2), 342 -354 (Scopus Listed)
47.	C. K. Agu, S. A. Lawal , M. S. Abolarin, J. B. Agboola, J. Abutu and E. I. Awode (2019), Multi-Response Optimisation of Machining Parameters in Turning AISI 304L Using Different Oil-Based Cutting Fluids, <i>Nigerian Journal of Technology</i> , 38 (2), 364 – 375.
48.	S.A. Lawal , E.A. Ajani, N.O Namesan, B.I. Ugheoke and E.A.P. Egbe (2017), Experimental evaluation of coated carbide insert on alloy of steel materials during high speed turning process, <i>Arid Zone Journal of Engineering, Technology and Environment</i> , 13(3):325-335, www.azojete.com.ng
49.	Lawal S.A. , Sule I.S., Namesan N.O., Ugheoke B.I and Abutu J. (2017), Evaluation of cutting variables on surface roughness and chip formation in turning AISI 304L steel with coated carbide inserts, <i>Journal of The Nigerian Institution of Mechanical Engineers</i> , 7 (1) 23 -34
50.	S.A. Lawal , N.O. Namesan, A.R. Mohammed, J.A. Agboola, J. Abutu and E.A. Ajani (2016). Investigation of Surface Roughness in High Speed Milling of AISI 1015 Low Carbon Steel using Response Surface Methodology” <i>Nigerian Journal of Tropical Engineering</i> 9 (1 & 2) 47-52

51.	Saheed Alade Olanisebe, James Oseni Abu, Sunday Albert Lawal , Evudiovo Apha Peter Egbe and Oyewole Adedipe (2016). Morphology and Optimisation of Impact Energy of Weldment of High Strength Low Alloy Steel. <i>FUOYE Journal of Engineering and Technology</i> , 1 (1) 53-57.
52	Onyemachi Joachim Onuoha, James Oseni Abu, Sunday Albert Lawal , Edeki Mudiare and Michael Bolaji Adeyemi (2016). Development of Cutting Fluid from False Walnut Oil Using Design of Experiment, <i>Journal of The Nigerian Institution of Mechanical Engineers</i> , 6 (1), 1-8.
53.	Onyemachi Joachim Onuoha, James Oseni Abu, Sunday Albert Lawal , Edeki Mudiare and Michael Bolaji Adeyemi (2016). Optimisation of Cutting Temperature during the Turing Operation of AISI 1330 Alloy Steel with HSS Cutting Tool using Vegetable Oil-Based Coolants.

	<i>Journal of The Nigerian Institution of Mechanical Engineers</i> , 6 (1), 9-19.
54.	M.S. Abolarin, B.O. Sadiku, S.A. Lawal . and I.O. Sadiq (2015). Tool Life Prediction in Turning of Mild Steel with HSS Cutting Tool Using Statistical Method. <i>Nigerian Journal of Engineering and Applied Sciences</i> , 2 (1), 43 – 52.

5.3 Conference - International

S/No	Conference Details
55	S. A. Lawal , R. O. Medupin, U. G. Okoro, O. Adedipe, J. Abutu, J. O. Tijani, A.S. Abdulkareem, M. B. Ndaliman (2023), Synthesis and Characterization of CNTs/TiO ₂ Nanocomposite for Formulation of Hybrid Nanofluid for machining CFRPs presented at Advanced and Technological Innovation in Nation Building and Attainment of Sustainable Development Goals, 5 th -7 th June, 2023 at University of Ilorin- Nigeria
56	Mopah E.J, Idah P.A, Gbabo A., Lawal S. A (2023), Development and Performance Evaluation of a Screw Press Briquetting Machine presented at Advanced and Technological Innovation in Nation Building and Attainment of Sustainable Development Goals, 5 th -7 th June, 2023 at University of Ilorin- Nigeria
57.	Abutu J., Lawal S.A. , Ndaliman M.B. and Lafia-Araga R.A., Effects of Process Parameters on the Ultimate Tensile Strength of Coconut Shell Reinforced Friction Lining, <i>30th AGM and International Conference of the Nigerian Institution of Mechanical Engineers</i> . 24 th - 27 th October, 2017, Kaduna, Nigeria.
58.	Emengo, A, Mokwa J.B., Ogundimu O, Awode E.I; Olaiya K.A. and Lawal S.A. , Analysis of Variance for Surface Roughness and Material Removal Rate in Orthogonal Turning of AISI 304L Alloy Steel, <i>2nd International Engineering Conference, School of Engineering and Engineering Technology, Federal University of Technology, Minna- Nigeria. 17th -19th October, 2017</i>
59.	Ahsan Ali Khan, Mohammed B. Ndaliman, Mohammad Yeakub Ali, M.Y.; Sunday Albert Lawal , Nurul Farhana Bt Sulong and Ummu Atiqah Khairiyah Bt, Mohamad (2013). Effect of Electrical Parameters on Performance of Cu-TiC Mixed Ceramic Compact Electrode in EDM Process, <i>2nd International Conference on Mechanical, Automotive and Aerospace Engineering (ICMAAE 2013)</i> , 2-4 July 2013, Kuala Lumpur, Malaysia
60.	Sunday A. Lawal , Imitiaz A. Choudhury, Mohammed .B. Ndaliman, and Yusoff Nukman, (2013). Formulation of Sustainable Eco-Friendly Cutting Fluid for Machining Process Using Statistical Method. presented at <i>3rd Biennial Engineering Conference, School of Engineering and Engineering Technology, Federal University of Technology, Minna- Nigeria. 4 -5th April, 2013. pp 209-213</i>

5.4 Conference - National

S/No	Conference Details
61.	V.C. Nwachukwu and S.A. Lawal (2018), Investigating the Production Quality of Electrical Porcelain Insulators from Local Materials, <i>International Conference on Engineering for a Sustainable World, IOP Conf. Series: Materials Science and Engineering 413, 012076</i> doi:10.1088/1757-899X/413/1/012076
62.	O. Ogundimu, S. A. Lawal and I. P. Okokpujie (2018) Experimental study and Analysis of Variance of Material Removal Rate in High Speed Turning of AISI 304L Alloy Steel, <i>International Conference on Engineering for a Sustainable World, IOP Conf. Series: Materials Science and Engineering 413, 012030</i> doi:10.1088/1757-899X/413/1/012030

	materials, International Conference on Engineering for a Sustainable World, IOP Conf. Series: Materials Science and Engineering 413, 012006 doi:10.1088/1757-899X/413/1/012006.
64.	E. A. Mayaki, O. Adedipe and S A. Lawal , (2018) Multi-Criteria Evaluation of the Appropriate Offshore Wind Farm Location in Nigeria, International Conference on Engineering for a Sustainable World, IOP Conf. Series: Materials Science and Engineering 413, 012041 doi:10.1088/1757-899X/413/1/012041.
65.	T. M. Ike, O. Adedipe, M. S. Abolarin, S. A. Lawal (2018) Mechanical Characterization of Welded API X70 Steel Exposed to Air and Seawater: A review, International Conference on Engineering for a Sustainable World, IOP Conf. Series: Materials Science and Engineering 413, 012034 doi:10.1088/1757-899X/413/1/012034.
66.	Sunday A. Lawal , Imitiyaz A. Choudhury and Yusoff Nukman (2014). An Evaluation of Oxidative and Pour Point Properties of Melon Seed Oil as Base Oil for Oil-in-Water Emulsion Metalworking Fluid. <i>International Conference On Advanced Technology and Sciences (ICAT'14)</i> , 12 th – 15 th August, 2014, Antalya, Turkey.

5.5 Workshop

S/No	Workshop
67	Sunday Albert Lawal , Foreign University Collaborations for Improved Academic Staff Performance in Engineering, A Paper Presented at the 3-Days HEPSSA Knowledge Sharing Workshop at Kwame Nkrumah University of Science and Technology (KNUST) Kumasi – Ghana on 14 th March, 2019

5.6 Chapter in Books

S/No	Book Details
68.	B.I.G. Barr and Sunday A. Lawal (2018), Failure of Concrete Structures. In: Saleem Hashmi (editor in chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier, pp. 1–24. ISBN: 978-0-12-803581-8. http://www.elsevier.com/locate/permissionusematerial
69	Hernandez R.J., Selke Susan E., and Lawal Sunday A. (2018), Packaging: Papers for Sacks and Bags. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; pp. 1-6. ISBN: 978-0-12-803581-8. http://www.elsevier.com/locate/permissionusematerial
70.	Hintz H.L., and Lawal Sunday A. , (2018), Paper: Pulping and Bleaching. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; pp. 1-7. ISBN: 978-0-12-803581-8. http://www.elsevier.com/locate/permissionusematerial
71.	Brauns Janis, Rocens K., and Lawal Sunday A. (2018, Modification of Wood: Mechanical Properties and Application. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; pp.1-11. ISBN:978-0-12-803581-8. http://www.elsevier.com/locate/permissionusematerial
72.	Sunday Albert Lawal and Oyewole Adedipe (2018) An Overview of Advancement in the Application of Heat-Resistant Alloys @ Springer International Publishing AG 2018 L.M.T. Martínez et al. (eds.), Handbook of Ecomaterials
73.	Lawal Sunday A. , and Ndaliman Mohammed B. (2017), Surface Roughness Characteristics in Finish Electro-Discharge Machining Process. In: Saleem Hashmi (editor-in-chief), <i>Reference Module in Materials Science and Materials Engineering</i> . Oxford: Elsevier; . pp. 1-11.

74 **S.A. Lawal**, M.B. Ndaliman, K.C. Bala and S.S. Lawal, (2017), Effect of Cutting Variables on Boring Process: A Review. In: Hashmi, M.S.J. (ed.), *Comprehensive Materials Finishing*. vol. 1, pp. 26–46. Oxford: Elsevier, <http://www.sciencedirect.com/science/referenceworks/9780128032497>

75. **Lawal S.A.**, Ugwuoke I.C., Abutu J., Lafia-Araga R.A., Dagwa I.M., and Kariim I (2016). Rubber Scrap as Reinforced Material in the Production of Environmentally Friendly Brake Lining. In: Saleem Hashmi (editor-in-chief), *Reference Module in Materials Science and Materials Engineering*. Oxford: Elsevier; 2016. pp. 1-10. http://www.sciencedirect.com/science/module/topic/9780128035818/concept-001243?_si=1&_ct=25

76. Choudhury, I. A. and **Lawal, S. A.** (2014). Burr Formation in Machining Processes: A Review. In *Comprehensive Materials Processing*; Rahman, M., Ed.; Elsevier Ltd., Vol. 11, pp 283–295. ISBN: 9780080965321. <http://www.sciencedirect.com/science/referenceworks/9780080965338>

5.6 Citation Summary

S/No	Citation	Google Scholar*	Research Gate**
1	Number of cited papers	50	35
2	Number of citation	1660	1,447
3	h-index	18	16
4	RG score	-	21.87
5	2022 Top 2% Global Researchers (https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4)		
6	2022 Africa Top 10,000 Scientist (https://www.adscientificindex.com/?university=Federal+University+of+Technology+Minna)		

* <https://scholar.google.com/citations?user=GBLhUhwAAAAJ&hl=en>

** https://www.researchgate.net/profile/Sunday_Lawal/contributions

6. POSTGRADUATE SUPERVISION

6.1 PhD Thesis

S/No	Name	Reg No	Thesis Title	Remark
1	ONUOHA J. Onyemachi	PhD/SEET/2007/221	Suitability of Vegetable Based Oils in Orthogonal Machining of AISI 1330 Carbon Steel Using Taguchi Method	<i>Co-Supervisor</i> <i>Completed</i>
2	ADAMU Bala Garba	PhD/SEET/2011/381	Effect of Flux Additives in Low Hydrogen Electrode Flux Coating on the Mechanical Properties of Shielded Metal Arc Weldment	<i>Co-Supervisor</i> <i>Completed</i>
3	ABUTU Joseph	PhD/SEET/2015/767	Development of Friction Lining for Automobile Vehicle from Non- Hazardous Reinforced Materials	<i>Major Supervisor</i> <i>Completed</i>

Using Response

			Surface Method	
4.	AGU, Callistus Kanny	PhD/SEET/2014/587	Performance Evaluation of Cutting Fluids During Turning of AISI 4140 Alloy Steel Using Full Factorial Design	Major Supervisor <i>Completed</i>
5	AREO Olatunde Stephen	PhD/SEET/2012/401	Investigation and Optimization of Process Parameters of Investment Cast Components Using Polystyrene Pattern with Plaster of Paris as Slurry	Co-Supervisor <i>Completed</i>
6	JAMES, B. Mokwa	PhD/SEET/2016/893	Evaluation of Refractory Properties of selected Nigeria Clays for Furnace Lining Applications	Major Supervisor <i>Completed</i>
7	OLAIYA, Kabiru Alani	PhD/SEET/2016/840	Modelling of Energy Consumption in Orthogonal Turning of AISI 316L Alloy Steel	Major Supervisor <i>Completed</i>
8.	ATTAH, Ileh Benjamin	PhD/SEET/2016/910	Friction Stir Welding of Dissimilar Aluminium Alloys Using Response Surface Methodology	Major Supervisor <i>Completed</i>
9	WOMA, Timothy Yakubu	PhD/SEET/2017/931	Tribological Evaluation of Lubricant Developed from Vegetable Based Oils For Industrial Applications	Major Supervisor <i>Completed</i>
10	ABBA-AJI, Mala Ali	PhD/SEET/2016/874	Development of Car Piston Material from Aluminium Alloy Using Coconut Shell as Additives	Major Supervisor <i>Completed</i>

11	BUHARI, Shehu Aliyu	PhD/SEET/2015/672	Development of Carbon Nanotubes/ Epoxy Resin Nanocomposite as a Coating Material for Corrosion Protection of Petroleum Pipelines in Nigeria	<i>Co-Supervisor</i> <i>Completed</i>
----	------------------------	-------------------	--	---

12	AJANI Emmanuel Adewale	PhD/SEET/2017/1027	Development of Transformer Oil from Blended Vegetable Oils	Co-Supervisor <i>On going</i>
13	ONIMISI Ibrahim Aminu	PhD/SIPET/2018/9247	Development of Power Plant Turbine Lubricant Oil from Selected Vegetable Oils Fortified with Suitable Property Enhancing Additives	Co-Supervisor <i>On going</i>
13	JOB Esuga Mopah	PhD/SEET/2017/975	Optimization of Process and Feedstock Formulation Parameters on Briquette Quality Using Screw Press Machine	Co-Supervisor <i>On going</i>
14.	AWODE, Emmanuel Imhanote	PhD/SEET/2016/841	Optimization of Cutting Parameters on Surface Roughness, Material Removal Rate and Tool Wear in Turning AISI 304L Alloy Steel	Co-Supervisor <i>Completed</i>
15.	OSAYI, Anthony Odia	PhD/SEET/2015/796	Investigation of Jathropha and Rubber Seed oil as Cutting Fluids for Turning AISI 316L Austenitic Stainless Steel	Major Supervisor <i>Completed</i>
16	OLANISEBE Saheed Alade	PhD/SIPET/2018/7835	Optimisation of Process Parameters and Microstructure Characterisation of Laser Welding of Dissimilar Metals	Major Supervisor <i>On going</i>
17	SULEIMAN, Lawal Tanimu Iliyasu	PhD/SIPET/2018/7757	Effect of Casting Parameters on Mechanical Properties of Al-6063 Pot Casting in Green Sand Mould using Scheffe's Model	Co-Supervisor <i>On going</i>

18	NWACHUKWU, Victor Chiagozie	PhD/SIPET/2019/10112	Development of Nanoparticle Cutting Fluids for High-Speed Machining of Carbon Fibre Reinforced	<i>Major Supervisor</i> <i>On going</i>
----	--------------------------------	----------------------	--	--

			Plastic	
19	IBRAHIM Lukman Kehinde	PhD/SIPET/FT/2021/ 11773	Application of Expert System for Plant Planning and Maintenance	Major Supervisor <i>On going</i>
20	IRECHUKWU, Charles Chinedu	PhD/SIPET/FT/2021/ 11658	Optimisation of Metal Inert Gas and Flux Cored Arc Welding Processes using Response Surface Methodology	Major Supervisor <i>On going</i>
21	OMAGU, Friday Enefolu	PhD/SIPET/FT/2021/ 11952	Semi-Solid Metal Processing of Automobile Aluminum Alloy Component Using Squeeze Casting	Co-Supervisor <i>On going</i>
22	OYEDEJI, Adesoji Adio	PhD/SIPET/FT/2021/ 11750	Evaluation of the Effect of Blended Nonedible Green Oil-Based Lubricants on Friction and Wear in Maintenance Applications	Co-Supervisor <i>On going</i>

6.2 M.Eng Thesis

S/No	Name	Reg. No	Thesis Title	Remark
1	OSAYI, Odia Anthony	M.ENG/SEET/ 2010/2390	Optimization of Process Parameters of Manual Metal Arc Welding (MMAW) on Mild Steel Using Taguchi Method	Co-Supervisor <i>Completed</i>
2	ABUTU Joseph	M.ENG/SEET/ 2012/3573	Investigation and Optimization of Rubber Scrap Reinforced Material for Friction Lining Production	Co-Supervisor <i>Completed</i>
3	IRECHUCKWU Charles Chinedu	MENG/SEET/ 2014/5249	Optimization of Process Parameters in Welding AISI 304L Using Tungsten Inert Gas	Co-Supervisor <i>Completed</i>
4	KASIM U. Sanda	M.ENG/SEET/ 2012/3766	Experimental Investigation and Optimization of Seashell as Reinforced Material for Brake Pad Production	Major Supervisor <i>Completed</i>
5	AHMED A. Musa	M.ENG/SEET/ 2012/3721	Effect of Cutting Tools on Surface Roughness during Orthogonal Turning of Aluminum Alloy	Major Supervisor <i>Completed</i>

6.	FATAI, Ayodele Mustapha	M.ENG/SEET/2012/4081	Investigation of Direct Energy Requirements in the Extrusion of Aluminium Alloy 6063	Major Supervisor <i>Completed</i>
7	AJANI Emmanuel Adewale	M.ENG/SEET/2014/4837	Performance Evaluation of Coated Carbide Insert in Turning Different Workpiece Materials	Major Supervisor <i>Completed</i>
8	MOHAMMED A. Rafiu	M.ENG/SEET/2014/4871	Evaluation of Surface Roughness During Milling of Mild Steel Using Response Surface Methodology	Major Supervisor <i>Completed</i>
9	SULE Ihiavi Saliu	M.ENG/SEET/2014/5156	Evaluation of Cutting Variables on Surface Roughness and Chip Formation During Turning of AISI 304L with Coated Carbide Insert	Major Supervisor <i>Completed</i>
10	EMENGO Arinzechukwu	M.ENG/SEET/2014/5032	Optimization of Surface Roughness and Material Removal Rate in Orthogonal Turning of AISI 304L Alloy Steel	Major Supervisor <i>Completed</i>
11	OGUNDIMU Olufemi	MENG/SEET/2015/5803	Optimization of Material Removal Rate During Turning of AISI 304L Using Response Surface Methodology	Major Supervisor <i>Completed</i>
12	NWACHUKWU Victor C	M.ENG/SEET/2015/5580	Production and Investigation of Quality of Electrical Insulator from Local Materials Using Taguchi Method	Major Supervisor <i>Completed</i>
13	ADEJO, Joseph Arome	M.ENG/SEET/2015/5671	Production and Evaluation of Material Composition on the Quality of Evaporating Dish	Major Supervisor <i>Completed</i>
14	AGBONOGA Anderson Ekhaesomi	MEng/SEET/2016/6279	Effect of plasma arc cutting process parameters on the surface roughness and kerf width of mild steel	Major Supervisor <i>Completed</i>
15	NASIR Abdulqudus Omuya	MEng/SEET/2016/6143	Optimisation of Plasma Arc Cutting Process of AISI 304 Stainless Steel Using Design of Experiment	Major Supervisor <i>Completed</i>
16	MUSA, Mannaseh Dalhatu	MEng/SEET/2017/6910	Development Of Minimum Quantity Lubricant Device for Turning Process	Major Supervisor <i>Completed</i>
17	UGWUNEJI Nnaemeka Kenechukwu	MEng/ SEET/2017/6769	Development and Optimisation of the Production Process of Gasket from Plant Fibre Hybrid	Major Supervisor <i>Completed</i>

18	YISA Enoch Ndako	MEng/ SEET/ 2017/6973	Effect of Different Cutting Fluids on Flank wear during Turning of AISI 304 Alloy Steel Using Coated Carbide Inserts	<i>Major Supervisor</i> <i>Completed</i>
----	---------------------	--------------------------	---	--

19	TSADO, Stephen Yebosoko	MEng/SIPET/ 2018/8288	Investigating the Effect of Nanoparticle Concentration on the Tribological Properties of Vegetable Oil	Major Supervisor <i>Completed</i>
20	AJODOH, Edward Onuche	M.Eng/SIPET/ 2019/10135	Development and Characterisation of Castor Oil Based Nano Cutting Fluid Using Al ₂ O ₃ /CNTs Nano - Composite Additives	Major Supervisor <i>On going</i>

6.3 B.Eng. Project – More than 75 Undergraduate Projects successfully supervised

7. RESEARCH GRANT

S/No	Title Of Research	Year	Source Of Fund	Amount
1	Production of Absorbent Cartridges of Hydrochar for the Treatment of Pharmaceutical, Textile and Tannery Wastewaters in Nigeria (Co-Researcher)	2021- 2024	NRF/SETI/WAS/00160	N16,000,000.00
2	Applying Bio-Nano Remediation as a Novel Technology to Remedy Petroleum Polluted Environment for Effective Economic Recovery in Nigeria (Co-Researcher)	2021- 2024	NRF/CC/EHU/0005	N17,500,000.00
3	Development of Eco-Friendly Nanoparticle Based Cutting Fluids for High-Speed Machining of Carbon Fibre Reinforced Plastic (Principal Investigator)	2020-2022	NRF/SETI/SAE/00053	N38,000,000.00
4	Development of Carburized Mild Steel for Military and Civil Application Using Pulverized Coconut Shell Charcoal and Periwinkle Shell (Co-Researcher)	2020-2022	NRF/SETI/SAE/00190	N35,000,000.00
5	Capacity Development for Research Uptake in Tannery Waste Management (Co-Researcher)	2020 -2021	HEPSSA 114	£20,000.00
6.	Influence of Carbon Nanotube (CNTS) on Epoxy Resin as a Coating Material on the Corrosion Protection of Pipeline in Nigeria (Co-Researcher)	2019/2020	TETFUND/ FUTMINNA/2019/B7/13	N1,301,732.00
7	Automotive Engineering Program Curriculum Development with Industry Collaboration (Co-Researcher)	2017-2019	HEPSSA 1/5	£138,642.00

8	Development of friction lining for automobile vehicle from non-	2016 -2017	TETFUND Institution Based Research	N1,000,000.00
---	---	------------	------------------------------------	---------------

	hazardous reinforcement materials using response surface methodology (Principal Investigator)		Intervention (Senate /FUTMINNA/2015/03)	
9	Investigation of the effect of cutting fluids on AISI 4340 steel during turning operation (Principal Investigator)	2011-2013	University of Malaya research grant (UM. TNC2/IPPP/UPGP/PPP/PV019/2011A)	RM60,000 (N3,000,000.00)

8. ADMINISTRATIVE RESPONSIBILITY

S/No	Type of Responsibility	Duration
1	Head of Department	7 th January 2019 – 6 th January 2023
2.	Postgraduate Coordinator	2017 - 2019
3.	Level adviser	2013-2017
4.	SIWES Coordinator	2013 - 2016
5.	*Departmental Examination Officer	2006 - 2007
6.	*Level Adviser	2005- 2007

*Federal University of Technology, Yola

9. EXTERNAL EXAMINERSHIP

S/No	Department and Institution	Status (OND/HND/ B.Tech/MTech/PhD)	Year
1.	Department of Mechanical Engineering, Kaduna Polytechnic, Kaduna	Higher National Diploma (HND)	2016- 2023
2	Department of Mechanical Engineering, Ahmadu Bello University Zaria	Name: Rabiatu Mabas Idris Matric.No: P16EGME 8072 Title: Development and Performance of An Improved Acha Dehusking Machine Degree: Master in Engineering	6/12/2021
3	Department of Mechanical Engineering, Ahmadu Bello University Zaria	Name: Bassey Okon Samuel Matric. No: P16EGME 8065 Title: Development of Reinforced Epoxy Composite for Wind Turbine Blade Manufacture using Hybrid of Pipeapple and Glass Fibre Degree: Master in Engineering	6/12/2021

4	Department of Mechanical Engineering, Covenant University Ota	Name: Attabo Ammen Abraham Matric. No: 13PCM00504 Title: Offshore wind power viability and map for Nigeria Degree: PhD in Engineering	8/8/2023
5	Department of Mechanical Engineering, Ahmadu Bello University Zaria	Name: Sunday Jatau Matric. No: P18EGME8401 Title: Potentials of ginger leaves reinforced high	10/8/2023

		density polyethylene composites for particles board production Degree: Master in Engineering	
--	--	--	--

10. EDITORIAL/ACADEMIC SUPPORT SERVICES

S/No	Type of Service	Title of Journal	Year
1	Managing Editor	Journal of Nigerian Institution of Mechanical Engineers	2020 - 2022
1	Review Editor	Reference Module in Materials Science and Material Engineering – Elsevier	2016 - 2019
2	Reviewer	(i) Journal of Cleaner Production- Elsevier (ii) Journal of the Institution of Engineers (India): Series C - Springer (iii) Journal of Material Research	2013- Date

11. TEACHING RESPONSIBILITY

(1). Engineering Management and Law (2). Quality Control Management (3). Manufacturing Technology (4) Production Planning and Control (5) Casting and Welding Technology (6) Research Techniques and Experimental Analysis (7) Industrial and Production Management (8) Metal Forming and Production Processes (9) Advanced Metal Casting (10) Production Management (11) Industrial Management and Statistics (12) Machine Design (13) Mechanics of Machine

12. AWARDS AND PRIZES

S/No	Title of Award /Prize	Awarding Institution	Year
1.	Best Graduating Student in Physics and Geography	ECWA Secondary School, Igbaja	1984/85
2	TETFund Scholar for PhD	TETFund Abuja	2010
2	Vice Chancellor's Commendation for Winning International Fellowship as a Visiting Researcher to Brunel University London	Federal University of Technology Minna	29 th November, 2021
3	Vice Chancellor's Commendation for Outstanding Scholarly Publications in Scopus Index Journals	Federal University of Technology Minna	1 st December 2021
4	Governing Council of Federal University of Technology Minna Commendation		

13. PROFESSIONAL TRAINING AND WORKSHOPS

S/No	Workshop	Date
1	Royal Academy of Engineering, Fourth Global Grand Challenges Summit, Southbank Centre Queen Elizabeth Hall, London	16 th -18 th September, 2019
2	Royal Academy of Engineering, HEPSSA Knowledge Sharing Workshop on "Foreign University Collaboration for Improved Academic Staff Performance" at Kwame Nkrumah University of Science and Technology (KNUST) Kumasi – Ghana	March 13 th - 14 th 2019

3.	Research Visit to UK (Brunel University London, University of Birmingham and Royal Academy of Engineering Westminster London)	January 20 th – 2 nd February 2019
----	---	---

	Headquarter	
4.	Workshop on “Towards Excellence in Engineering Training and Practice in Sub-Sahara Africa” organized by Higher Education Partnership in Sub-Sahara Africa (HEPSSA), Ahmadu Bello University Zaria	March 6 th -7 th , 2018
5.	Workshop on Student Academic Registration Process and Advisement for Level Advisers organized by Quality Assurance and Productivity Unit, Federal University of Technology, Minna	March 31 st , 2014

14. EXTRA-CURRICULAR ACTIVITIES

- (i) Reading,
- (ii) Cooking

15. REFEREES

i. Prof. Faruk Adamu Kuta

Vice Chancellor
Federal University of Technology Minna

ii. Engr. Prof. Mrs. Z. D. Osunde

Dean, School of Infrastructure, Process Engineering and Technology
Federal University of technology Minna

iii. Engr. Prof. M.B. Ndaliman

Managing Director
Scientific Equipment Development Institute, Minna

14th August, 2023