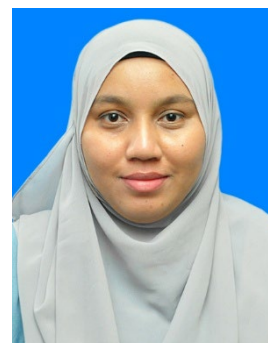


PARTICULAR DETAILS

Nur'Aishah Ahmad Shahrim

Address

19, Jalan Rampaisari 3C,
Bandar Sungai Buaya,
48010 Rawang,
Selangor Darul Ehsan, Malaysia.
Tel. No. (H/P) : +6010-2909489
Email : nuraishahahmadshahrim@gmail.com



Date of Birth : 5 November 1993
NRIC. No : 931105-14-5114
Nationality : Malaysian
Sex : Female
Languages Spoken : Malay / English
Languages Written : Malay / English

EDUCATION

2019-2023	International Islamic University Malaysia (IIUM) Doctor of Philosophy (Engineering) Title of Research: Investigation of Poly (3,4-Ethylenedioxythiophene):Poly (Styrene Sulfonate) (PEDOT:PSS) Doped with Silver Nanoparticles as Textile Electrode
2017-2019	International Islamic University Malaysia (IIUM) M. Sc. in Materials Engineering Title of Thesis: Preparation and Characterization of Biopolymer Based on Mango Seed Starch
2013-2017	International Islamic University Malaysia (IIUM) B. Sc. in Materials Engineering CGPA 3.674 Title of Final Year Project: Preparation and Characterization of Biodegradable Film Based on Tropical Fruit Seed Starch-Glycerol with Citric Acid as Cross-linking Agent
2011-2013	Centre for Foundation Studies International Islamic University Malaysia (IIUM) Foundation in Engineering and Computer Science CGPA 3.683
2006-2010	S.M.K.A Maahad Hamidiah, Selangor Malaysian Certificate of Education 9 A's 2B Low Certificate of Education 9 A's
2000-2005	S.R.K Sri Jelok, Selangor

WORKING EXPERIENCES

Nov 2012 – Jan 2017

Nova Q Services & Consultancy

- As Trainer
- Manages to conduct several camps, seminars, motivational talks with primary, secondary and university students.
- Preparing slides and modules for team building programs.

- Conducting team building for enhancing leadership skills for students' leaders and corporate group.
- Dealing with teachers and counsellors regarding the plans and objective of the motivational camps conducted.
- Preparing students leaders for enhancing their soft skill and presentation skills.
- Resolving any issue regarding the meal and accommodation of students and teachers during programs.

June 2016 – Aug 2016

Puri Water Sdn Bhd (Selangor)

- As Trainee Engineer
- Compiling data and prepare a detailed report for experiment conducted in laboratory scale.
- Assisting engineer preparing project timeline for waste and water treatment project.
- Ensure the availability of equipment needed for project.

Feb 2019 – Jan 2018

International Islamic University Malaysia (IIUM)

- As Research Assistant (Part Time)
- Conducted study on "Preparation and Characterization of Biopolymer based on Tropical Fruit Seed Starch for Green Composites Applications" research under supervision of Assistant Professor Dr. Norshahida Sarifuddin in IIUM.
- Strategize and coordinate effectively tasks to accomplish projects with timeliness.
- Analyse data and prepare a detailed report for the study conducted.
- Manages inventory of equipment and materials related.

Feb 2017 – Jan 2019

International Islamic University Malaysia (IIUM)

- As Tutor & Grader (Part Time)
- Assists lecturers by conducting discussion, laboratory, or quiz sections; and by grading assignments or examinations.
- Responsible in grading of students' homework, papers, or laboratory reports.

Feb 2017 – Jan 2019

International Islamic University Malaysia (IIUM)

- As Lab Demonstrator (Part Time)
- Assist the undergraduate students under the guidance of Assistant Professor Dr. Norshahida Sarifuddin in IIUM.
- Demonstrates experiments related to materials engineering demonstrators
- Familiarize with the theoretical concepts of the experiments, as well as the techniques and methods to be employed.
- Ensure that students follow the general safety regulations for the laboratory and any specific precautions for each experiment.

Feb 2018 – Apr 2019

International Islamic University Malaysia (IIUM)

- As Research Assistant (Part Time)
- Worked "*Tribological Properties of Hybrid Composites based on Woven Carbon Fiber/Fine Kenaf Fabric Reinforced Epoxy Matrix for Automotive Applications*" research under supervision of Assistant Professor Dr. Norshahida Sarifuddin in IIUM.
- Strategize and coordinate effectively tasks to accomplish projects with timeliness.
- Analyze data and prepare a detailed report for the study conducted.
- Manages inventory of equipment and materials related.

May 2019 – Sept 2021

International Islamic University Malaysia (IIUM)

- As Research Assistant (Part Time)
- Working on "*Poly (3,4-Ethylenedioxythiophene):Poly (Styrene Sulfonate) (PEDOT:PSS) Doped Silver Nano Particle (SNP) Conductive Polymer Film for Pressure Ulcer Prevention*" research under supervision of Professor Ir. Dr. Zuraida Ahmad in IIUM.
- Strategize and coordinate effectively tasks to accomplish projects with timeliness.

- Analyze data and prepare a detailed report for the study conducted.
- Manages inventory of equipment and materials related.

Oct 2021 – 14 Mar 2023

International Islamic University Malaysia (IIUM)

- As Research Officer and Teaching Assistant (Part Time)
- Documenting final report by including critical findings for research grant under Professor Ir. Dr. Zuraida Ahmad in IIUM.
- Carrying experiment, characterization and testing inside and outside of campus.
- Initiating collaboration with potential industry.
- Writing and publishing research papers.

15 Mar 2023 – Present

AM PM International Sdn Bhd (Kuala Lumpur)

- Project Manager, Marketing and Sales Executive
- Job scope:
 - a. Conduct waste treatment and establish circular economy concept
 - b. Identify strategies to close big scales projects.
 - c. Secure appointments with prospects to present proposals.
 - d. Familiarize all products and services offered by the company.
 - e. Procure new clients through direct contact, word-of-mouth, and collaboration with the marketing department.
 - f. Attend networking activities to research and connect with prospective clients.
 - g. Maintain meaningful relationships with existing clients to ensure that they are retained.
 - h. Suggest upgrades or added products and services that may be of interest to clients.
 - i. Craft business proposals and contracts to draw in more revenue from clients.
 - j. Negotiate with clients to secure the most attractive prices.
 - k. Reviewing clients' feedback and implementing necessary changes.
 - l. Remaining in tune with trends in consumption to ensure that our offerings remain relevant.
- Head of Project, R&D and Corporate Management
- Jobscope:
 - a. Prepare documents and proposals for projects as instructed by the Director from time to time
 - b. Prepare administration related to corporate services and contracts as assigned by the immediate superior.
 - c. Liaise with customers relevant to projects and corporate services
 - d. Follow up with relevant stakeholders for projects execution or corporate services
 - e. Carry out R&D on any given tasks from time to time
 - f. Responsible on SOCMED promotions and marketing and guide marketing staff on products testimonials/relevant content

17 August 2024 – Present

Persatuan Eko Wanita Berinisiatif (EkoWI) (Selangor)

- Secretary

20 February 2024 – Present

Change Climate Change PLT (CCC) (Kuala Lumpur)

- Partner

PROFESSIONAL AFFILIATIONS

- Graduate Engineer – Board of Engineers Malaysia (BEM)
- Graduate Technologist – Malaysia Board of Technology (MBOT)

EXTRACURRICULAR ACTIVITIES

2011 – 2012

Foundation Students' Coordination Council (FSCC) - Head of Social and Community Services

- Job scope included providing direct service and support to individuals such as handling a

- charity event.
- Implementing community programs for student in programs.
- Major achievements:
 - Program Coordinator SMAC 2012
 - Preparation and Technical RAFEST 2012
 - Assistant Program Manager Community Service 2012
 - Head of Volleyball Unit IPTIM 2011
 - Program Manager Fast to Feed 2011

14-24 Nov 2013

CONVEST - IIUM 29th Convocation Fiesta – Program Coordinator Intellectual Discourse

- Job scope included ensuring the program run smoothly.
- Assists in the preparation and update master plan of the program
- Coordinates and manages participant during the “Intellectual Discourse” talk

11-17 Apr 2015

Engineering And Technology Exhibition (ENGITEX) 2015- Sponsorship Committee

- Job scope included establishing a list of all potential sponsors for the event
- Assisting the team in developing a sponsor package
- Managing a database of contacts, requests and outcomes
- Maintain accurate list of supporters and ensure benefits and recognition commitments are fulfilled before, during and after the event
- Record and report sponsorship status to the Head of Sponsorship

2014 –2015

Engineering Students’ Society (ENGINEIUS XXI) - Member of Sports And Recreation Bureau

- Actively participate in all the activities by being a cooperative member
- Major achievements:
 - Head of Volleyball Unit Engineering Sports Carnival (ESC) 2015
 - Committee of Public Relation Closing Ceremony of Engineering Sports Carnival (ESC) 2015
 - Sponsorship Committee
 - Main Committee Road to Green 2015

Feb 2019, Feb 2020

Material Lecturing Competition (MLC)

Mac 2019, Feb 2020, Feb 2021

3 Minutes Thesis Competition (3MT)

Mac 2020

Kulliyyah of Engineering (KOE) 25th Anniversary Celebration

- Handling demonstration of research to public: waste to wealth
- Handling exhibition of research prototypes and products.
- Articulates research in layman term for public understanding.

2019 –2021

Postgraduate Students Association Kulliyyah of Engineering (PGSA KOE) – Vice Secretary and Head of Islamization Bureau

- Actively participate in all the activities by being a cooperative committee
- Major achievements:
 - Organizing workshops and talks for postgraduate students during the tenure.
 - Main committee for community service: green materials at secondary schools.
 - Main committee for workshop on green materials, in conjunction with Global Clean-up Congress 2022

Dec 2020, Dec 2021, Dec 2022

Kulliyyah of Engineering Research, Innovation and Commercialization (KERICE)

Jun – July 2021

Summer Internship Program at Qatar University, Doha

- Actively participate in class discussions and teamwork for review paper related to Materials, Synthesis and Characterization (CAM)
- As an international student, liaising with centre for advanced material for potential research collaboration

14 February 2023

Climate Action through 3C: Care, Create, Charted - Floor Manager

- Established communication and relationship with school's teacher and management.
- Organizing IIUM Young Scientist Explorers competition, talks and exhibitions related to "Waste to Wealth" for circular economy.
- Liase with Dean, VIP, and judges of the programme
- Assist program manager and collaborators to ensure smoother programme.

CONFERENCE PROCEEDINGS

1. **Oral Presenter** at Malaysia Polymer International Conference (MPIC 2017), 19 – 20 July 2017, Pusat Permata Pintar Negara, Universiti Kebangsaan Malaysia (UKM), Bandar Baru Bangi, Selangor, Malaysia.

Nur'Aishah Ahmad Shahrim, Norshahida Sarifuddin, Hafizah Hanim Mohd Zaki and Ahmad Zahirani Ahmad Azhar

The Effects of Glycerol Addition on Mechanical Properties of Thermoplastic Films based on Jackfruit Seed Starch

2. **Oral Presenter** at International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2017), 8 – 9 August 2017, Kulliyyah of Engineering, International Islamic University Malaysia (IIUM), Wilayah Persekutuan Kuala Lumpur, Malaysia.

Nur'Aishah Ahmad Shahrim, Nur Najihah Solehah Abd Rani, Norshahida Sarifuddin, Hafizah Hanim Mohd Zaki and Ahmad Zahirani Ahmad Azhar

Preparation and Characterization of Jackfruit Seed Starch/Poly (Vinyl Alcohol) (PVA) Blend Film

3. **Oral Presenter** at Advanced Materials Characterization Technique (AMCT 2017), 16 – 17 August 2017, Awana Hotel Resorts World Genting, Genting Highlands, Pahang, Malaysia.

Nur'Aishah Ahmad Shahrim, Nur Najihah Solehah Abd Rani, Norshahida Sarifuddin, Hafizah Hanim Mohd Zaki and Ahmad Zahirani Ahmad Azhar

Effects of Banana Skin Powder on Properties of Jackfruit Seed Starch/Poly(Vinyl Alcohol) PVA Film

4. **Poster Presenter** at Advanced Materials Characterization Technique (AMCT 2017), 16 – 17 August 2017, Awana Hotel Resorts World Genting, Genting Highlands, Pahang, Malaysia.

Norshahida Sarifuddin, Mohammad Anuar Zaki Shaari, Nur'Aishah Ahmad Shahrim, Ahmad Zahirani Ahmad Azhar and Hafizah Hanim Mohd Zaki

Effect of Banana Peel Fiber as Reinforcement in Low Density Polyethylene/Durian Seed Starch Blends

5. **Poster Presenter** at Regional Conference on Materials and Asean Microscopy Conference (RCM and AMC 2017), 12 – 13 December 2017, Olive Tree Hotel, Penang, Malaysia.

Norshahida Sarifuddin, Nur'Aishah Ahmad Shahrim and Hanafi Ismail
Characterization of Starch Extracted from Mango Seeds

6. **Oral Presenter** at International Conference on Innovation and Sustainable Material Engineering (ICME 2018), 15 – 17 August 2018, Hilton Hotel, Kuching, Sarawak, Malaysia.

Norshahida Sarifuddin, Nur'Aishah Ahmad Shahrim and Khairunnisa Syahirah Azman

Effect of Oregano Essential on the Properties of Mango Kernel Starch Films

7. **Oral Presenter** at 27th Scientific Conference of Microscopy Society Malaysia (SCMSM 2018), 3 – 4 December 2018, The Mudzaffar Hotel, Melaka, Malaysia.

Nur'Aishah Ahmad Shahrim, Norshahida Sarifuddin, Hafizah Hanim Mohd Zaki and Ahmad Zahirani Ahmad Azhar
Biodegradation of Mango Seed Starch Film in Soil

8. **Poster Presenter** at Advanced Materials Characterization Technique (AMCT 2019), 23 – 24 July 2019, Putra Regency Hotel, Kangar, Perlis, Malaysia

Nur'Aishah Ahmad Shahrim, Norshahida Sarifuddin, Hafizah Hanim Mohd Zaki and Ahmad Zahirani Ahmad Azhar
Estimating Suitable Starch Extraction from Mango Seeds Using Analytical Hierarchy Process (AHP) Method

9. **Oral Presenter** at International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2019), 30 – 31 October 2019, Putrajaya International Convention Centre, Wilayah Persekutuan Putrajaya, Malaysia.

Nur'Aishah Ahmad Shahrim, Norshahida Sarifuddin, Hafizah Hanim Mohd Zaki and Noorasikin Samat
The Effects of Glycerol Addition on Mechanical Properties of Thermoplastic Films Based on Mango Seed Starch

10. **Oral Presenter** at International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2019), 30 – 31 October 2019, Putrajaya International Convention Centre, Wilayah Persekutuan Putrajaya, Malaysia.

Udaimatunnoor Azmy, Zuraida Ahmad, Nur'Aishah Ahmad Shahrim, Amelia Wong Azman, Fawwaz Eniola Fajingbesi
Effects of silver nanoparticles concentration on resistivity of PEDOT:PSS thin conductive films

11. **Oral Presenter** at Kulliyah of Engineering Research, Innovation and Commercialization (KERICE2020), 8 December 2020, Kulliyah of Engineering, International Islamic University Malaysia. Virtual.

Nur'Aishah Ahmad Shahrim, Zuraida Ahmad, Amelia Wong Azman, and Yose Fachmi Buys
Medical Mat Based on Poly(3,4ethylene Dioxythiophene): Poly(Styrene Sulfonate)/Silver Nanoparticles For Pressure Ulcer Prevention

12. **Oral Presenter** at International Conference on Advancement of Materials, Manufacturing, and Devices (ICAMaDe 2021), 22 – 23 June 2021, Centre of Excellence for Frontier Materials Research, Universiti Malaysia Perlis, Perlis, Malaysia. Virtual.

Nur'Aishah Ahmad Shahrim, Zuraida Ahmad, Intan Seirra Masaad, Nurafiqah Zamros, Amelia Wong Azman, Yose Fachmi Buys, and Norshahida Sarifuddin
Comparative Studies on the Electrical Properties of PEDOT:PSS Doped SNP Films and Hydrogels for Medical Electrode Applications

13. **Oral Presenter** at 1st Malaysia International Conference on Nanotechnology & Catalysis (MICNC2021), 1 – 3 September 2021, Nanotechnology and Catalysis Research Centre (NANOCAT), Universiti Malaya, Kuala Lumpur, Malaysia. Virtual.

Nur'Aishah Ahmad Shahrim, Nadia Nabila Md Hafiz, Zuraida Ahmad, Amelia Wong Azman, Yose Fachmi Buys, and Norshahida Sarifuddin
Inkjet-Printed Embedment of PEDOT: PSS Doped SNP as Electrodes on Fabrics

14. **Oral Presenter** at Kulliyah of Engineering Research, Innovation and Commercialization (KERICE2021), 13 – 15 December 2021, Kulliyah of Engineering, International Islamic University Malaysia. Virtual.

Nur'Aishah Ahmad Shahrim, Zuraida Ahmad, Amelia Wong Azman, Yose Fachmi Buys, and Norshahida Sarifuddin
Conductive Fabric Embedded with PEDOT:PSS doped SNP Electrode

15. **Oral Presenter** at 5th International Conference on Advances in Materials and Manufacturing Engineering (ICAMME 2022), 9 – 10 August 2022, International Islamic University Malaysia, Kuala Lumpur, Malaysia.

Nur'Aishah Ahmad Shahrim, Zuraida Ahmad, Wan Nur `Alia Nadhirah Wan Solah, Amelia Wong Azman, Yose Fachmi Buys, and Norshahida Sarifuddin
Electrical Resistance of Fabric Immersed with PEDOT:PSS Doped Ag NPs and DMSO Solution

16. **Oral Presenter** at 5th International Conference on Advances in Materials and Manufacturing Engineering (ICAMME 2022), 9 – 10 August 2022, International Islamic University Malaysia, Kuala Lumpur, Malaysia.

Nur'Aishah Ahmad Shahrim, Norshahida Sarifuddin, Hafizah Hanim Mohd Zaki and Noorasikin Samat
The Influence of Glycerol on Physical and Mechanical Properties of Mango Seed Starch Film

17. **Poster Presenter** at Kulliyah of Engineering Research, Innovation and Commercialization (KERICE2021), 22 December 2022, Kulliyah of Engineering, International Islamic University Malaysia.

Nur'Aishah Ahmad Shahrim, Zuraida Ahmad, Amelia Wong Azman, Yose Fachmi Buys, and Norshahida Sarifuddin
Ex Situ MⁿAg⁺nificant Doped PEDOT:PSS for e-Textiles

18. **Poster Presenter** at International Islamic University Malaysia (IIUM) Postgraduate Colloquium 2023, 9 October 2023, Swiss-Bell Hotel, Kuantan, Malaysia.

Nur'Aishah Ahmad Shahrim and Zuraida Ahmad
Interfacial Mechanism of Inkjet-Printed PEDOT:PSS/Ag NPs on Cotton Fabric toward Green Device Fabrication

19. **Poster Presenter** at Symposium of Engineering, Technology & Industrial Applications 2024 (SETIA 2024), 4-5 September 2024, Hotel Mardhiyyah, Shah Alam, Malaysia.

Nur'Aishah Ahmad Shahrim, Zuraida Ahmad, Amelia Wong Azman, Yose Fachmi Buys, and Norshahida Sarifuddin
Mechanism of Electrical Conductivity in PEDOT:PSS Film Enhanced with Colloidal Silver Nanoparticles

SEMINAR & WORKSHOP CERTIFICATIONS

- Postgraduate Development Programme (Thesis Writing and Publication), 8 – 9 April 2017, International Islamic University Malaysia (IIUM), Malaysia
- Postgraduate Development Programme Package 5 (Proofreading, Tips for VIVA, Conference and Poster Presentation), 15 – 16 April 2017, International Islamic University Malaysia (IIUM), Malaysia
- Workshop on Understanding the Thermal Behavior of Your Materials, 1 February 2018, Universiti Kebangsaan Malaysia (UKM), Malaysia
- Kursus Lanjutan Pembuatan Komposit (Teknik Resin Infusion), 4 -5 April 2018, Universiti Sains Malaysia (USM), Malaysia
- Workshop on Green Materials, 20 – 21 Sept 2022, International Islamic University Malaysia (IIUM), Malaysia.

- Towards 2050 Plan on Renewable energy and net Zero Carbon: Malaysia's Action, Challenges, and opportunities for Innovation, organized by ECE, KOW, IIUM, Malaysia, 3 April 2024, *Virtual*
- Focus Group Discussion on “Kajian Semakan Status Semasa Skim Perlabelan Hijau Kebangsaan”, as Rapporteur, organized by Malaysian Green Technology & Climate Change Corporation (MGTC), 3 September 2024, Rafflesia B, Palm Garden Hotel, Putrajaya
- *Panel Penilai Pertandingan Inovasi Dan Pameran Akhir Program Climate Action Through 3c: Care, Create, & Charted*, organized by IIUM Flagship Project IIUM Sustainable Climate Action, Universiti Islam Antarabangsa Malaysia (UIAM) dan Kulliyah Kejuruteraan dengan kerjasama UNESCO-SKUM, 7 January 2025, Bangunan Wadi Budi, Universiti Islam Antarabangsa Malaysia (UIAM)
- Networking Exchange Session, organized by UNEP and UN-Habitat, 7 April 2025, SDG Centre Kuala Lumpur, Malaysia.
- Roundtable Discussion: Aging Infrastructure and Aging Workforce in the Water Sanitation Sector in Malaysia, organized by UNEP and UN-Habitat, 8 April 2025, ASTRICE, Bukit Jalil, Malaysia.
- *Simposium Reformasi Pengurusan Sisa Pepejal Negara 2025*, 6 May 2025, Institut Latihan Perumahan Dan Kerajaan Tempatan (i-KPKT)
- Trenchless Asia 2025, 8 May 2025, Kuala Lumpur Convention Centre, Kuala Lumpur City Centre
- Seminar on SIRIM Environmental Technology Verification (ETV) Scheme for Green Technology Adoption in Malaysia, 14 May 2025, Rebana Hall 1, Level 1, Mardhiyyah Hotel & Suites, Shah Alam.
- *Kursus Pembangunan Kapasiti Pengukuran dan Pelaporan Gas,Rumah Hijau (Green House Gas- GHG) dan Bandar Rendah Karbon*, 28 May 2025, Institut Latihan Perumahan Dan Kerajaan Tempatan (i-KPKT), *Virtual*
- Power Networking: Meet the Experts Behind HRDC Claimable Courses That Deliver Results, organized by XPERTTRAINER by AIDAQ Corp Services Sdn Bhd, 30 May 2025, Corus Hotel, Kuala Lumpur Malaysia.
- *Kursus Penguatkuasaan Akta Pengurusan Sisa Pepejal Dan Pembersihan Awam 2007 [Akta 672]*, 10 June 2025, Institut Latihan Perumahan Dan Kerajaan Tempatan (i-KPKT), *Virtual*
- *Juri Program Pertandingan Pameran Sekolah Mampan (SSE) Sempena Pameran Sekolah Mampan Kuala Lumpur 2025 (KLSSE25)*, organized by Malaysia-Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia (UTM) Kuala Lumpur, 13 June 2025, Dewan Grand Bankuet, Aras 6, Residensi UTM Kuala Lumpur
- Business Networking Session, organized by UNITI, 19 June 2025, Menara Arina UNITI, Kuala Lumpur, Malaysia.
- Workshop on Strengthening Industrial Training in Engineering Education, organized by Engineering Accreditation Department (EAD), Board of Engineers Malaysia, 24 June 2025
- Focus Group Discussion on Bridging Policy and Practice for Wastewater in Floating Settlements, as Rapporteur and Organizing Committee, organized by UNEP and UN-Habitat, 2 July 2025, Zenith Hotel Putrajaya, Silk Ballroom, Level 1

ACADEMIC ACHIEVEMENTS

- First class degree in Materials Engineering
- Best student in Department of Manufacturing and Materials Engineering
- Dean's list for 7 semesters during degree
- Best postgraduate student (Master degree) in Kulliyah of Engineering

ACADEMIC PROJECT & COURSEWORK

Subject	Title
Seminar	Development of Metal Foam

SKILL & EXPERTISE

- Proficient in Microsoft Office Word, Power Point, and Excel
- Fair in SigmaPlot, Origin, Expert Choice and Solidworks.
- Ability to learn new task quickly.
- An analytical and detail-oriented.
- Independent with minimal guidance and flexible,
- Work effectively in team.
- Have good memory and attention in details.
- Excellent leadership and interpersonal skills.
- Willing to take responsibility.
- Ability to give and receive criticism.
- Calmly arriving at resolutions to conflicts.

PUBLICATIONS

International and National Journals

1. **Shahrim, N. A.**, Sarifuddin, N., and Ismail, H. (2018). Extraction and Characterization of Starch from Mango Seeds. *Journal of Physics: Conference Series*, 1082, 012019.
2. **Ahmad Shahrim, N.**, Abd Rani, N. N. S., Sarifuddin, N., Mohd Zaki, H. H. and Ahmad Azhar, A. Z. (2018). Effects of Banana Skin Powder on Properties of Jackfruit Seed Starch/Poly (Vinyl Alcohol) PVA Film. *International Journal of Current Science, Engineering and Technology, Special Issues*, 571-577. ISSN International: 2581-4311.
3. Sarifuddin, N., Shaari, M. A. Z., **Ahmad Shahrim, N.**, Ahmad Azhar, A. Z. and Mohd Zaki, H. H. (2018). Effect of Banana Peel Fiber as Reinforcement in Low Density Polyethylene/Durian Seed Starch Blends. *International Journal of Current Science, Engineering and Technology, Special Issues*, 191-196. ISSN International: 2581-4311.
4. Sarifuddin, N., **Shahrim, N. A.**, Rani, N. N. S. A., Zaki, H. H. M. and Azhar, A. Z. A. (2018). Preparation and Characterization of Jackfruit Seed Starch/Poly (Vinyl Alcohol) (PVA) Blend Film. *IOP Conference Series: Materials Science and Engineering*, 290, 012065.
5. **Shahrim, N. A.**, Sarifuddin, N., Zaki, H. H. M., and Azhar, A. Z. A. (2018). The Effects of Glycerol Addition on Mechanical Properties of Thermoplastic Films Based on Jackfruit Seed Starch. *Malaysian Journal of Analytical Sciences*, 22(5), 892 – 898.
6. Sarifuddin, N., **Shahrim, N. A.**, Azman, K. S. (2018). Effect of Oregano Essential on the Properties of Mango Kernel Starch Films. *International Conference on Advanced Manufacturing and Industry Applications. IOP Conference Series: Material Science and Engineering*, 429, 012062.
7. **Shahrim, N. A.**, Sarifuddin, N., Zaki, H. H. M., & Azhar, A. Z. A. (2020). Estimating Suitable Starch Extraction from Mango Seeds Using Analytical Hierarchy Process (AHP) Method. *Materials Science Forum*, 1010, 471–476.
8. Azmy, U., Ahmad, Z., **Shahrim, N. A.**, Azman, A. W., and Fajingbesi, F. E. (2020). Effects of Silver Nanoparticles Concentration on Resistivity of PEDOT : PSS Thin Conductive Films. *TEST Engineering & Management*, 83(May/June), 1008-1013.
9. **Shahrim, N. A.**, Sarifuddin, N., Azhar, A. Z. A., Zaki, H. H. M. (2020). The Effects of Glycerol Addition on Mechanical Properties of Thermoplastic Films Based on Mango Seed Starch. *TEST Engineering & Management*, 83(May/June), 1351-1355.
10. **Shahrim, N. A.**, Ahmad, Z., Azman, A. W., Buys, Y. F., and Sarifuddin, N. (2021). Mechanisms for Doped PEDOT:PSS Electrical Conductivity Improvement. *Materials Advances*, 2(22), 7118-7138.
11. **Shahrim, N.A.**, Hafiz, N. N. M., Ahmad, Z., Azman, A. W., Buys, Y. F., and Sarifuddin, N.

- (2022). Ink based on poly(3,4-ethylene dioxythiophene), poly(sulfonostyrene) and silver nanoparticles (PEDOT/PSS/SNP) blends for fabrics printing. *Polimery*, 67(6), 249-254.
12. **Shahrim, N. A.**, Ahmad, Z., Masaad, I. S., Zamros, N. A., Azman, A. W., Buys, Y. F., and Sarifuddin, N. (2022). Comparative Studies on the Electrical Properties of PEDOT:PSS Doped SNP Films and Hydrogels for Medical Electrode Applications. *Key Engineering Materials*, 929, 43-49.
 13. **Ahmad Shahrim, N.**, Sarifuddin, N., Ahmad Azhar, A. Z., & Mohd Zaki, H. H. (2022). Biodegradation Of Mango Seed Starch Films In Soil. *IIUM Engineering Journal*, 23(1), 258–267.
 14. **Ahmad Shahrim, N.**, Ahmad, Z., Solah, W.N.A.N.W., Azman, A.W., Sarifuddin, N., Buys, Y.F. (2023). Electrical Resistance of Fabric Immersed with PEDOT:PSS Doped Ag NPs and DMSO Solution. In: Maleque, M.A., Ahmad Azhar, A.Z., Sarifuddin, N., Syed Shaharuddin, S.I., Mohd Ali, A., Abdul Halim, N.F.H. (eds) Proceeding of 5th International Conference on Advances in Manufacturing and Materials Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore.
 15. **Shahrim, N.A.**, Sarifuddin, N., Daud, F.D.M., Zaki, H.H.M. (2023). The Influence of Glycerol on Physical and Mechanical Properties of Mango Seed Starch Film. In: Maleque, M.A., Ahmad Azhar, A.Z., Sarifuddin, N., Syed Shaharuddin, S.I., Mohd Ali, A., Abdul Halim, N.F.H. (eds) Proceeding of 5th International Conference on Advances in Manufacturing and Materials Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore.
 16. **Shahrim, N. A.**, Abounahia, N. M., El-Sayed, A. M. A., Saleem, H., & Zaidi, S. J. (2023). An overview on the progress in produced water desalination by membrane-based technology. *Journal of Water Process Engineering*, 51, 103479.

Bulletin and Chapter in Book

17. **Shahrim, N. A.**, Sarifuddin, N., and Ismail, H. (December 2017). Characterization of Starch Extracted from Mango Seeds. *Bulletin of Microscopy Society Malaysia*, 15(1), 4-8.
18. Sarifuddin, N., **Shahrim, N. A.**, Zaki, H. H. M., Daud, F. D. M., Yusuff, M. I., and Mahmud, M. S.. *Mangifera Indica: A Potential Source for Biodegradable Plastics Production*. International Invention and Innovative Competition (InIIC): Leading Towards Creativity and Innovation Series 1. Chapter 22, 78-81. MNF Publisher, 2019.

AWARDS

1. 1st Runner Up in SETIA 2024, Research Pitching Award in Material, Mechanical and Industrial Design & Technology. Mechanism of Electrical Conductivity in PEDOT:PSS Film Enhanced with Colloidal Silver Nanoparticles.
2. Silver Medal in SETIA 2024. Mechanism of Electrical Conductivity in PEDOT:PSS Film Enhanced with Colloidal Silver Nanoparticles.
3. 1st Runner-Up in IIUM PG Colloquium 2023, Science & Technology and Engineering Category. Interfacial Mechanism of Inkjet-Printed PEDOT:PSS/Ag NPs on Cotton Fabric toward Green Device Fabrication.
4. Silver medal in Kulliyah of Engineering Research, Innovation and Commercialization (KERICE 2021). Conductive Fabric Embedded with PEDOT:PSS doped SNP Electrode.
5. Gold medal in International Invention and Innovative Competition (InIIC Series 1/2019). *Mangifera Indica: Fascinating Discovery*.
6. Gold medal in Kulliyah of Engineering Research, Innovation and Commercialization (KERICE 2019). *Mangonificent Plastic*.
7. Champion in Materials Lecturing Competition (MLC 2019) at university level, International Islamic University Malaysia. *Mangifera Indica: Fascinating Discovery*.
8. 1st Runner Up in Materials Lecturing Competition (MLC 2020) at university level, International Islamic University Malaysia. *The Insights of Medical Mat*.

9. Best poster presenter during Regional Conference on Materials and Asean Microscopy Conference (RCM and AMC 2017), Penang.
10. Best oral presenter during Advanced Materials Characterization Technique (AMCT 2017), Pahang.

SPONSORSHIP

1. PTPTN
2. Sejahtera, IIUM
3. IMITIAZ, IIUM

REVIEWER

Has been a reviewer of several journal articles for publication in leading journals and conferences.

Journal	Title	Year
Asian Journal of Advanced Research and Reports	Production of Biodegradable Films as a Renewable Source for Packaging Materials Using Mango Seed Kernel Starch	2025
Malaysian Journal of Microscopy 2025 (MJM 2025)	Physico-Mechanical and Morphological Analyses of Activated Carbon/Clay Reinforced Recycled Polypropylene Composites	2025
IIUM Engineering Journal	Biodegradation Of Lignocellulose by Aspergillus Niger: Enhancing Red Ginger Oil Recovery From Zingiber Officinale Var. Rubrum	2025
Advances in Research (ISSN: 2348-0394)	Quality Parameters of Tray Dried Jackfruit Seed Flour	2024

TRAINING & PRESENTATIONS

1. Speaker: Pengurusan Sisa Pepejal Lestari – Perkhemahan Unit Beruniform Briged Bakti Malaysia, Sekolah Wilayah Persekutuan Tahun 2024 | 10 Jun 2024
2. Speaker: Program Lestari Komuniti – Jiwa Merdeka: Amalan Kompos Mengurangkan Jejak Karbon – Perjumpaan Kelab & Persatuan Sekolah Menengan Sri Gombak | 28 Ogos 2024
3. Speaker: Pelaksanaan Komuniti Bebas Plastik Sekali Guna – Peringkat Majlis Bandaraya Shah Alam (MBSA), Kompleks PKNS | 20 November 2024
4. Trainer: Kursus Buat Sabun dari Minyak Masak Terpakai – Anjuran Muslimat Masjid Lama Batu 6 Gombak dan Persatuan Eko Wanita Berinisiatif (EkoWI), Masjid Lama Batu 6 Gombak | 26 Oktober 2024
5. Trainer: Module A: Energy Transition – TNB's Business Towards Sustainability Pathway 2050 : Greenhouse Gasses Concept and Carbon Footprint – TNB ILSAS | 27 June 2024
6. Trainer: Module A: Energy Transition – TNB's Business Towards Sustainability Pathway 2050: Greenhouse Gasses Concept and Carbon Footprint – TNB ILSAS | 2 July 2024
7. Trainer: Module A: Energy Transition – TNB's Business Towards Sustainability Pathway 2050: Greenhouse Gasses Concept and Carbon Footprint – TNB ILSAS | 4 July 2024
8. Trainer: Kursus Buat Sabun dari Minyak Masak Terpakai – EkoWI; Masjid Lama Batu 6 Gombak | 26 Oktober 2024
9. Trainer: Fabrication of Biodegradable Plastic using Starch - Green School Module by AMSERU IIUM at Sekolah Setia Budi, Gombak | 24 November 2021
10. Facilitator: Module A: Energy Transition – TNB's Business Towards Sustainability Pathway 2050 – TNB ILSAS | 2023 & 2024
11. Facilitator: Inisiatif Kitar Semula Shah Alam bersama Komuniti – Bengkel Hala Tuju Duta Sifar Sisa & Pengurusan Kitar Semula Shah Alam 2024, Majlis Bandaraya Shah Alam; Grand

SERVICE TO COMMUNITY

1. Panel Penjurian bagi Pertandingan Anugerah Hijau Komuniti Zon Bersih Mini (Mini Zee Bee) Peringkat Majlis Bandaraya Shah Alam | December 2024
2. Majlis Ramah Mesra bersama Ketua - Ketua Komuniti JKP Zon 3, Program Komuniti MPAJ, Pejabat Ahli Majlis Zon 3 MPAJ, Dewan Kecil Orang Ramai (DEKOR), Jalan AU5D/11, Lembah Keramat | 16 Februari 2025
3. Program Gombak Bersih Indah Zon 3 MPS: Taman Greenwood, Gombak | 2024 & 2025
4. Kursus Penyediaan Menu Sihat "Sushi & Vietnamese Roll" Anjuran JKP Zon 3 MPS, Kebun-Kebun Komuniti JKP Zon 3 MPS & EkoWI, Dewan Masyarakat Taman Gombak, Gombak, Malaysia | 19 Julai 2025

SUPERVISION

Industrial Internship

1. Siti Sarah Binti Md Yusop (2018008), Biotechnology-Biochemical Engineering, Kulliyah of Engineering, International Islamic University Malaysia | Engineering Industrial Training at AM PM International Sdn. Bhd.

REFERENCES

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