



CONSULTATION, RESEARCH AND DEVELOPMENT DEPARTMENT, NIOOSH
TECHNICAL EXPERT PROFILE



- Name : **SITI NURANI BINTI HASSAN**
- Designation : Technical Expert III (Ergonomics/Occupational Health)
- Email Address : siti.nurani@niosh.com.my
- ORCID number : <https://orcid.org/0000-0003-4925-9411>
- Research Interest :
 - Developing Healthier Workplace
 - Prevention through Ergonomics Design
- Education :
 - Master of Science Industrial Engineering, Universiti Putra Malaysia, 2019
 - Bachelor of Sport Sciences (Hons), Universiti Teknologi Mara, Shah Alam, Selangor, Malaysia, 2007
- OSH Field of Specialization* :
 - Ergonomics (Anthropometric measurements, Ergonomics Risk Assessment, Office ergonomics)
 - Occupational Health and Safety Advisory (Total Wellness and Health Promotion, Back Protection Management, Psychosocial Risk Management)
- Professional Experience* :
 - NIOSH Registered Trainer ,Consultant (2007), Researcher(2009)
 - Registered Trainer Department of Occupational Safety Health for Ergonomics Trained Person (Initial & Advance)2020 & 2023
 - Certified DOSH Ergonomics Trained Person Initial (ID:2220, Oct,11,2022) & Advance (ID:865, May,22,2023)

- Professional Experience* :
- Technical Committee on Ergonomics, Department Standard Malaysia [NSC 23/TC 3 Alternate Members],2011-2023
 - Visiting Lecturer Ergonomics for Government and Private Universities Malaysia [Universiti Kebangsaan Malaysia year 2017-2019, Open University Malaysia year 2012-2015]
 - NIOSH Module and Examination Committee-Occupational Health, 2019-2028
 - Certified DOSH Psychosocial Trained Person (PTP), ID: 247/25, January, 30, 2026
 - HRD Corp Accredited Trainer, Jun 30,2026 (Trainer ID: 61398)

Research/ Publications : **Book**

1. *Buku Panduan Kecergasan Fizikal* [ISBN 078-983-42714-4-2, Mac 2011]
2. *5 Nasihat Nak Sihat* [ISBN 978-967-13946-9-4, Nov 2017]
3. *Program Pemuliharaan Pendengaran* [ISBN 978-967-13946-8-7, Nov 2017]
4. *Ergonomik Program Pencegahan Penyakit Muskuloskeletal di Tempat Kerja* [ISBN 978-967- 15562-0-7, Nov 2017]
5. *OSHECT Journey to NIOSH Laboratory Excellence* [ISBN 978967-18381-5-0,2022]
6. *Emosi dan Tekanan : Psikologi Dunia Kerja Masa Kini* [ISBN 978-967-488-405-5, Aug 2025]

: **Journal Articles**

1. Norashikin M., Dianna T. K., Raemy M.Z. & **Siti Nurani, H.** (2011). Ergonomic Training Reduces Musculoskeletal Disorders among Office Workers: Results from the 6-Month Follow-Up. *Malaysian Journal of Medical Sciences School of Medical Sciences*, Vol.18(2):16-26
2. Norashikin M., Dianna T. K., Raemy M.Z. & **Siti Nurani, H.** (2015). The effects of office ergonomic training on musculoskeletal complaints, sickness absence, and psychological well-being: a cluster randomized control trial. *Asia Pacific Journal of Public Health*, 27(2):1652-1668
3. **Siti Nurani, H.**, Rosnah, M.Y., Raemy, M.Z., Mohd Rizal, H. and Hari Krishnan, T.S. (2015). Anthropometric data of Malaysian Workers. *New Ergonomics Perspective-Yamamoto(Ed.)*, Taylor & Francis Group,London, 353–360.
4. Siti Nasyrah, I., **Siti Nurani, H.**, Nooh, M.N., Yusof, N. (2015). The awareness level of behaviour based safety (BBS) in construction industry. *International Journal of Engineering Research and Reviews*, 3(1):26-33. ISSN 2348-697X(Online).
5. Yusuff, R.M., Daruis, D.D.I., Dawal, S.Z. and **Hassan, S. N.** (2016). Development of an anthropometry database for the malaysian population : problems and challenges. *Malaysian J. Public Heal. Med.*, 2: 36–43.
6. Nurul Izzah, A.B., Siti Zawiah, M.D., Nukman, Y., **Siti Nurani, H.**, Azmah Hanim, M.A.(2023). Trends, relationship, and model of selected service sector workers in Malaysia: Physiological responses of mental workload and mental fatigue during

performing real-time tasks. *Jurnal Polimesin*, Vol (21)2, e-ISSN 25491999, p-ISSN 16935462.

7. Rajendran, K., Hoe, V. C. W., Danaee, M., Khan, M. A. G., Haron, M. H., Dawami, O., Hamdan, M. T., Abu Bakar, M. K. F., Ismail, F. H. D., Ibrahim, Z., Manogharan, P., Onn, T. M., Vijayan, R., Ramarao, H. P. R., Jaaman, S., Shamsuddin, N. H., Subramanian, U., Nandimath, P., Abu Hanifah, M. S., Bains, B. S., Pushpanathan, M., **Siti Nurani, H.**, & Kolob, R. (2024). Work fatigue among air personnel: Protocol for fatigue intervention program (FIP) and quasi-experimental study. *Malaysian Journal of Medicine and Health Sciences*, 20(2), 366–373.
8. Potter, R. E., Ertel, M., Dollard, M., Leka, S., Jain, A., Lerouge, L., Houtman, I., Aust, B., Choi, W.-J., Crooks, N., Fitzgerald, J., **Siti Nurani, H.**, Kirk-Brown, A., Mishiba, T., Spetch, A., Stoetzer, U., & Van Dijk, P. (2024). Joint ICOH-WOPS & APA-PFAW global roundtable perspectives: Exploring national policy approaches for psychological health at work through the 'National Policy Index' lens. *Industrial Health*. <https://doi.org/10.2486/indhealth.2024-0092>
9. Nurnadiah, Z., Samhani, I., Azimah, I., Norsuhaily, A.B., **Siti Nurani, H.**, Tuan Sharipah, T.H., Amir, Z. Y., Fatimah Murni, O.A., Chong, S.K., Nadhira, H., Noor Azniza, M.N. (2024). Predicting stress response to Gelam oil therapy using electroencephalography and heart rate variability. *Journal of Occupational Safety and Health*, 21(1), 31-43. NIOSH Malaysia.
10. Nurnadiah, Z., Samhani, I., Azimah, I., Norsuhaily, A.B., **Siti Nurani, H.**, Tuan Sharipah, T.H., Amir, Z.Y., Chong, S.K., & Nor Azmi, A.B., (2025). Electroencephalography and heart rate variability prognostics in mental health therapies for Malaysian workers. *International Journal of Public Health Science*, 14(2), 760–772. <https://doi.org/10.11591/ijphs.v14i2.25224>

Honors/ Award / Affiliation

- :
- Copyright: Anthropometric Grid Data for Malaysia, Intellectual Property Corporation of Malaysia (MyIPO).
 - Copyright: NIOSH Ergonomics Self Height Adjustable Transfer Cage (N-Ergosehat), CRLY2021W05980, Intellectual Property Corporation of Malaysia (MyIPO), Nov 2021.
 - Copyright: SelfCare360: Occupational Stress Evaluation Mobile Application, CRLY2023C02030, Intellectual Property Corporation of Malaysia (MyIPO), May 2023.
 - Copyright: Predicting Response towards Different Mental Health Therapies using Machine-Learning Approach, CRLY2024C01066, Intellectual Property Corporation of Malaysia (MyIPO), 07 March 2024.
 - Copyright: Electronic Mental Assessment and Self-Treatment System 2.0 (e-MAST 2.0), CRLY2024C01067, Intellectual Property Corporation of Malaysia (MyIPO), 07 March 2024.
 - Copyright: Self-support 24/7: Treat your mental health before it's too late, CRLY2024C05500, Intellectual Property Corporation of Malaysia (MyIPO), 26 June 2024.

Honors/ Award /Affiliation		• Silver Award, SelfCare360 Mobile Apps. <i>Research and Innovation Week</i>, University College TATI, Kemaman Terengganu, Malaysia, May 2023. • Bronze Award in the Invention, Innovation and Design on e-learning (IIDEL), Electronic Mental Assessment and Self-Treatment System 3.0 (E-MAST 3.0). UniSZA Carnival on e-learning 2023, Universiti Sultan Zainal Abidin, Terengganu, Malaysia, 23th August 2023. • Bronze Medal in IUCEL X KNOVASI 2024, the International University Carnival on E-Learning (IUCEL), The Congress and Innovation Competition in Teaching and Learning (kNovasi), Predicting Response towards Different Mental Health Therapies using Machine-Learning Approach, Bangi Avenue Convention Centre, 5 September 2024.
Membership	:	• Associate member of Malaysian Industrial Hygiene Association, (#A0309-10), July 2010. • Full member of Human Factors and Ergonomics Society Malaysia,0141,2nd October 2023 • Member of Asia Pacific Academy for Psychosocial Factors at Work, September 2023-2025.
Professional Courses Attended	:	• Basic Train the Trainer, September 2007, Competency • Advance Train the Trainer course by NIOSH, 21-24 April 2008, Competency • Certificate Program for Safety and Health Officer (Modular) by NIOSH, 16 Feb- 22 May 2009 • Ergonomic course by Environmental Research Associates Sdn Bhd,25-29 August 2008 • Internal Auditor ISO 9001:2000 course by NIOSH, 22-23 September 2008 • Fundamental Industrial Hygiene course by NIOSH, 21-23 December 2009 • ISO 9001:2008 Implementation Training (Awareness & Documentation Training) by Bureau Veritas, 29-30 September 2010 • Integrated ISO 9001:2008 & OHSAS 18001:2007 Effective Report Writing course by SIRIM Training Services Sdn Bhd, 15- 16 August 2011 • Inspection, Testing and Examination of Engineering Control Equipment (IHT Module 2) course by NIOSH, 21-25 November 2011 • Industrial & Office Ergonomics course by Malaysian Industrial Hygiene Association (MIHA),26-29 July 2012 • Pengujian dan Analisis Fungsi Paru-Paru oleh NIOSH, 10 April 2012 • WERA Tool Training Program by UTMSPACE, 8-9 October 2012 • Behavioral Based Safety Course by NIOSH, 20-21 May 2014 • High Impact Journal writing and publishing by NIOSH, 9-10 July 2014 • Kursus Pemeriksaan Jentera Berperakuan oleh NIOSH, 29-30 October 2014 • Occupational Hygiene Courses by Occupational Health Training Association (OHTA) training provider BOHS-NIOSH 2014

Professional Courses
Attended

- High Impact Journal writing and publishing by NIOSH, 9-10 July 2014
- Basic Occupational First Aid, 17-18 May 2016
- Moving ahead with ISO45001:2018, 27 March 2018
- Ergonomics Trained Person (Initial & Advance), 2021
- Certified Professional Program, Mental Health Coach, Mental Wellness Ecotourism Center Malaysia, 3-7 April 2023
- ISO 45003:2021 Occupational Health & Safety Management Systems-Psychological Health and Safety at Work Interpretation and Implementation, NIOSH Certification Sdn Bhd, May,10-11,2023
- ISO 45001:2018 OSH Management Systems (OSHMS) Awareness, NIOSH Certification Sdn Bhd, Oct,23,2023
- ISO 39001:2012 Road Traffic Safety Management Systems (RTSMS) Awareness, NIOSH Certification Sdn Bhd, Oct,25,2023
- Mental Health Awareness, NIOSH, April,4,2024
- Occupational Psychological First Aid, NIOSH,July,3-4,2024
- DOSH Psychosocial Trained Person, KGB Local Services & Training Sdn Bhd, Dec,27-28,2025

Declaration

I hereby declare that all above-mentioned information is in accordance with fact or truth up to my knowledge and I bear the responsibilities for the correctness of the above-mentioned particulars.