

MELAKA
INTERNATIONAL
INTELLECTUAL EXPOSITION

MIIEX'24

12 JUNE '24

Dewan Taming Sari,
Universiti Teknologi MARA Caw. Melaka,
Kampus Alor Gajah, Melaka

*"Empowerment of Special
Needs through Invention
& Innovation"*

**EXTENDED
ABSTRACT**

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”**

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UiTM Cawangan Melaka

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78000 Alor Gajah

Melaka Bandaraya Bersejarah

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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”

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INNOVATION, INVENTION, AND DESIGN

FOREWORD BY THE RECTOR OF UiTM CAWANGAN MELAKA



Professor Ts. Dr. Mohd Rasdi bin Zaidi

Rector, Universiti Teknologi MARA (UiTM)

Cawangan Melaka

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Umami Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)



Associate Professor. Dr. Nur Hayati binti Abd Rahman

Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you

FOREWORD BY THE PROJECT DIRECTOR



Dr Zulkefli bin Muhamad Hanapiyah

Senior Lecturer

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

**FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY,
INNOVATION AND DIGITAL COMMUNICATIONS**



YB Datuk Fairul Nizam bin Roslan

Melaka State Exco of Science, Technology, Innovation and Digital Communications

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honor for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

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Thank you.

MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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	BUSHRA ABDUL HALIM
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	AFZAN SAHILLA BINTI MOHD AMIR HAMZAH
	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN

ABOUT MIIEX'24

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

OBJECTIVES

1. Encourage and instil passion towards inventing and innovating among UiTM Cawangan Melaka staff, students and academicians of local and international higher education institutions;
2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

THEME

'EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION'

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Creating Bridges for Opportunities: Developing a UniqueHire.com for People with Disabilities

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Abstract

Individuals with special needs face significant barriers in the job market, including discrimination, limited access to inclusive employment opportunities, and challenges in navigating traditional job search processes. These obstacles can lead to underemployment and lower socioeconomic status for this community. There is a pressing need for a dedicated job search platform that addresses these challenges and connects special needs individuals with employers who are committed to inclusive hiring practices. Thus, the idea of creating a job app as UniqueHire.com, especially for those with disabilities is presented in this paper. UniqueHire.com, is a revolutionary job search platform dedicated to empowering individuals with disabilities to find fulfilling employment opportunities. UniqueHire.com is the first of its kind in Malaysia, designed primarily to cater to individuals with special needs. It offers a comprehensive and inclusive database for job seekers and employers, facilitating efficient matchmaking and meaningful employment opportunities. UniqueHire.com provides special needs individuals with options for virtual or physical work based on their abilities and task requirements, while emphasizing inclusion, accessibility, and individualized support. Its practical features, such as translating sign language to text and vice versa, benefit those who are mute or deaf, enabling seamless online communication with employers. By bridging gaps in the job market, the platform promotes a more equitable and diverse workforce, supporting Malaysia's commitment to social inclusion and sustainable development goals. UniqueHire.com helps users track their income and expenses effortlessly, enabling efficient financial management. Its features monitor inflows and outflows, offering insights into spending habits for better control. Whether tracking freelance earnings or job search expenses, it provides valuable tools for staying organized financially.

Keywords: Disabilities, platform, job search, special needs

1. INTRODUCTION

Individuals with disabilities are among the most marginalized and often underserved populations globally (World Health Organization, 2013). In Malaysia, individuals with special needs encounter significant hurdles in the job market, stemming from pervasive discrimination, limited access to inclusive work environments, and inadequate support systems for navigating the employment process. The lack of a dedicated platform for connecting special needs individuals with inclusive employers exacerbates these issues and restricts their opportunities for professional growth and financial independence. Thus, there is a pressing need for a dedicated platform that addresses these challenges and connects special needs individuals with employers who are committed to inclusive hiring practices. To navigate the job market effectively, people with disabilities must be given an innovative solution to overcome these problems. This extended abstract presents the concept of developing a job search application known as UniqueHire.com specifically adapted for people with disabilities. The platform offers tailored job searches, ensuring users can find positions that match their skills and accessibility needs. It also provides accessible job listings, fosters a supportive community, offers valuable resources, and aims to empower users to reach their full potential in the workforce.

By streamlining the job search process and providing accessible tools for individuals with special needs, the platform aims to enhance socioeconomic opportunities and promote workplace inclusion. The platform supports the government's efforts to foster equal employment opportunities and nondiscrimination in the workplace under the Malaysian Plan of Action for People with Disabilities (2016-2022). Additionally, the platform advances the United Nations Sustainable Development Goals (SDGs), particularly SDG 8 (Decent Work and Economic Growth) and SDG 10 (Reduced Inequality) (Krishnan, 2018). By providing individuals with special needs access to job opportunities and a supportive environment, the platform contributes to promoting inclusive and sustainable economic growth and reducing inequality.

2. OBJECTIVE

The primary goal of the platform is to empower individuals with special needs by providing them with an accessible and user-friendly interface to search for job opportunities that align with their abilities and preferences. Simultaneously, the platform enables employers to find the right talent from a wider pool of candidates, fostering a diverse and inclusive workforce. By offering tailored

job searches and accessible job listings, the platform streamlines the job search process for users with diverse abilities. Additionally, the supportive community and valuable resources provided by UniqueHire serve as a valuable support system, offering guidance and encouragement throughout the job search journey. Ultimately, the platform empowers individuals with disabilities to discover employment opportunities that utilize their talents and skills, fostering greater inclusivity and diversity in the workforce. Besides, this platform helps special needs communities to reduce expenses and save more time since they no longer must go out to find a job. Hence, by having this app, users or jobseekers can easily keep track of their income and expenses, allowing them to efficiently manage their finances. Through this, the platform promotes equity and inclusion in the Malaysian labor market.

3. NOVELTY & INVENTIVENESS

This platform is the first of its kind in Malaysia, designed primarily to cater to the needs of individuals with special needs and to address the unique challenges they face in the job market. The platform's distinguishing features include options for special needs individuals to choose between virtual or physical work based on the task requirements, accommodating a range of abilities and preferences. By focusing on inclusion, accessibility, and individualized support, the platform creates a tailored experience for both job seekers and employers. Special needs individuals can benefit from adaptive interfaces, personalized job recommendations, and targeted job searches. Employers also gain access to a dedicated pool of talented candidates with the skills and capabilities that align with their needs. This pioneering approach to matching individuals with special needs to meaningful work opportunities promotes a more inclusive and equitable labor market in Malaysia.

4. PRACTICALITY & USEFULNESS

The platform offers practical benefits for both job seekers and employers by facilitating efficient and effective communication across various abilities. Individuals who are mute and deaf can benefit significantly from the app's built-in communication features, such as a tool that translates sign language to text and vice versa. This feature enables seamless online interactions between job seekers and employers, ensuring that all parties can communicate clearly and effectively throughout the recruitment process. By bridging communication gaps and providing an inclusive

environment, the platform empowers special needs individuals to engage confidently in the job market while supporting employers in their commitment to diversity and accessibility. This approach ultimately enhances the productivity and inclusiveness of the Malaysian workforce. With features designed to monitor inflows and outflows of money, users can gain insights into their spending habits and identify areas for improvement. Whether it's tracking earnings from freelance gigs or monitoring expenses related to job searches, this app provides valuable financial management tools to help users stay organized and in control of their money.

5. CONCLUSION

In conclusion, the platform represents a significant step toward a more inclusive and equitable job market, where individuals with special needs can thrive and employers can benefit from a diverse and capable workforce. Through this innovative solution, the platform has the potential to make a lasting impact on both the lives of special needs individuals and the broader employment landscape. UniqueHire.com also offers individualized job recommendations and streamlines employer communication by utilizing chatbot technology. This platform streamlines the job search process, enhances user experience, and increases the efficiency of matching candidates with relevant opportunities. The integration of inventive features sets the apps apart from traditional job platforms, showcasing its commitment to providing innovative solutions to meet the evolving needs of both job seekers and employers in today's dynamic workforce landscape.

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