

MINDEF Internship Programme for University Undergraduates 2024

Application Period: till 31 March 2024

Internship Period: Summer (Around May – Aug)



S/N	Project Title	Project Description	Project Deliverables	Learning Outcomes	Prerequisites	Supporting Documents
1	"Reading Between The Lines": Exploring New Means of Improving Service Delivery and Understanding Citizenry Feedback	<p>MINDEF/SAF welcome feedback from citizens on services across multiple communication channels, such as calls, emails, and surveys. Feedback is important and allows us to quickly review and make improvements to service delivery. MINDEF/SAF continuously seek to innovate and keep up to date with digital and data analytic technologies to analyse, visualise, and understand citizenry feedback. This project gives you the opportunity to explore innovative ways of understanding citizenry feedback and cases to improve MINDEF/SAF's service delivery.</p> <p>In tandem with this project, you will:</p> <ul style="list-style-type: none"> (a) Use cloud/Artificial Intelligence (AI), open source, or local techniques/means to analyse key issues raised by citizens, and design/build a pipeline to generate insights, (b) Conduct end-to-end data analysis for problems you identify from the data, (c) Conduct Data cleaning and standardisation, and (d) Frame the problems identified, and generate hypotheses. (Common problems include pain points of customers/citizens, informational gaps during transactions, understanding callers and their needs, and how our agencies can serve citizens/customers better.) 	<ol style="list-style-type: none"> 1. Research paper 2. Presentation 	<ol style="list-style-type: none"> 1. You will gain exposure to work that data analysts, business/digitalisation analysts, and service delivery planners do. 2. You will engage with real-world problems and propose improvements for public sector service delivery. 3. You will have the opportunity to develop a small scale solution to address service delivery issues and assess its effectiveness compared to existing systems/tools. 	<p>Preferred field of study: -</p> <p>Skillsets:</p> <ul style="list-style-type: none"> - Good idea or interest to improve citizenry service delivery - Portfolios in analytics or software development <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript
2	Artificial Intelligence (AI) for Citizens' Feedback Management	<p>Are you ready to redefine the future of citizen services and feedback management? MINDEF is on the lookout for innovative minds to join us in spearheading our ground-breaking project: the transformation of the NS Contact Centre (NSCC) into a fully AI-powered hub of customer service excellence and innovation. You will assist in delivering a seamless omni-channel experience that sets new benchmarks for citizen services. This is your chance to be at the forefront of digital transformation and shape the future of citizen service delivery.</p> <p>In tandem with this project, you will:</p> <ul style="list-style-type: none"> (a) Be involved in MINDEF Feedback operations, and play a vital role in handling citizens' feedback, assisting them to resolve their queries and concerns promptly, clearly and accurately. (b) Conduct research on using AI applications to elevate customer engagement and streamline National Service Call Centre (NSCC) operations. (c) Explore best practices and innovations in application of AI in contact centres and customer engagement across public and private sectors, and research about the performance and success of actual implementation in real contact centres. (d) Review findings from MINDEF/SAF departments on the feedback, finesse the replies, and work with the MINDEF Feedback Unit (MFU) management on replying feedback providers. <p>Your interactions with our citizens will help to build public confidence and trust in MINDEF/SAF, as well as support for National Service and the defence of our nation. It will also equip you with a deeper understanding of feedback management requirements to work on the AI NSCC project.</p>	<ol style="list-style-type: none"> 1. Research paper 2. Case submissions 	<ol style="list-style-type: none"> 1. You will gain insights into the latest AI technologies, the real-world applications in government services, and the transformative impact on citizen experiences. 2. You will enhance your interpersonal and stakeholder engagement skills as you collaborate with a spectrum of partners, harnessing feedback to drive continuous improvement. 3. You will get acquainted with ground issues and concerns faced by citizens, as well as develop an understanding of organisational assessment of the issues. 	<p>Preferred field of study: Data Science, Artificial Intelligence or any other related field</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript

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3	Beat the Trend - Creating Content to Dominate the #FYP	<p>You will support the creative teams in pitching, planning, developing, and producing creative content for MINDEF/SAF social media campaigns under guidance and supervision. You will provide support in one or more of the following areas depending on your skill set and interests:</p> <ul style="list-style-type: none"> (a) social media video production, (b) graphic design and animation, (c) video editing, (d) photography, (e) videography, and (f) other related domains. <p>You will also be involved in assisting various teams supporting MINDEF/SAF's media production for events and activities such as Shangri-La Dialogue, SAF Day, National Day Parade rehearsals, military exercises, etc. You must be available on selected evenings and Saturdays for these events.</p> <p>Successful interns will be attached to <i>So Drama!</i> Entertainment (SDE), a MINDEF Related Organisation for the duration of their internship.</p>	<ol style="list-style-type: none"> 1. Social media plans 2. Communications collaterals & products 	<ol style="list-style-type: none"> 1. You will learn more about media production operations and social media management and gain an understanding of MINDEF/SAF strategic communication objectives and considerations. 2. You will gain insight into the opportunities and challenges in content production, and exercise creativity in enhancing communications efforts. 3. You will level-up media industry-relevant skillsets through observation and interaction with media professionals. 	<p>Preferred field of study: New Media, Communications, Marketing, Psychology, Sociology, Social Sciences, Broadcast, Journalism, Video Editing, Production or any other related field</p> <p>Skillsets:</p> <ul style="list-style-type: none"> - Familiarity with use of social media, including social media editing tools - Skills and expertise in content production software e.g. Cap Cut, Adobe Creative suite of products - Skills and expertise in technically relevant areas e.g. photography, video camera operations - Ability to write-well with good command of English language - Interest in media and communications <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcripts 3. Portfolio (if available), links to examples of content created for personal or other social media accounts 4. State proficiency/familiarity with technical software and equipment (if any) e.g. camera model and related equipment, software name
4	Communications for Data Science & Artificial Intelligence	<p>You will be involved in designing communication materials for Data Science and Artificial Intelligence (DS & AI) projects with the target population being generalists in MINDEF. On this, you will work on advertising these products via a suitable means to internal audience. In addition, you will be assigned to other marketing and communications work within the department.</p>	<ol style="list-style-type: none"> 1. Communication Materials 	<ol style="list-style-type: none"> 1. You will have hands-on experience in designing communication/advertising materials. 2. You will understand the work culture in MINDEF. 3. You will gain experience in evaluation of suitable means for advertising given constraints and considerations. 	<p>Preferred field of study: Marketing, Media, Communications or any other related field</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript
5	Conceptualisation and Development of a Psychological Preparation Programme for Cyber Warriors	<p>You will study the psychological stressors of desk bound operators in the Singapore Armed Forces (SAF) (e.g. cyber warriors, intelligence analysts, etc). On this, you assist in developing a psychological preparation programme to facilitate their onboarding to the job.</p>	<ol style="list-style-type: none"> 1. Presentation 	<ol style="list-style-type: none"> 1. You will conduct independent research in the domains of interest. 2. You will gain experience in consulting work. 3. You will learn to apply psychological principles to develop an implementable and sustainable intervention program that is contextualised to the stakeholder's needs. 	<p>Preferred field of study: Psychology</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript
6	Conceptualisation and Development of a Training Programme for Competitive Shooting Team	<p>You will conceptualise and develop a multi-year competition training plan for the Singapore Armed Forces (SAF) shooting team. On this, you will conduct research on existing and emerging coaching frameworks. You also assist in customising a build up program for the shooting team, which is based on performance psychology principles and theories.</p>	<ol style="list-style-type: none"> 1. Presentation 	<ol style="list-style-type: none"> 1. You will conduct independent research in Performance Psychology. 2. You will gain experience in consulting work. 3. You will learn to apply psychological principles to develop an implementable and sustainable intervention program that is contextualised to the stakeholder's needs. 	<p>Preferred field of study: Psychology</p> <p>Skillsets:</p> <ul style="list-style-type: none"> - Interest in sports psychology <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript

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7	Creating Killer Content that Resonates with Audiences	<p>You will assist in conducting research to understand social media content consumption preferences under the guidance of a supervisor. The study will be scoped to focus on one or more the following:</p> <p>(a) Specific target audience segments, or</p> <p>(b) Specific social media platforms.</p> <p>To understand social media operations, processes, and metrics, you will also support the creative content production for MINDEF's social media platforms e.g. TikTok/Instagram video production, craft social media posts, mobile photography etc. You will also be involved in assisting various teams supporting MINDEF/SAF's media production for events and activities such as Shangri-La Dialogue, SAF Day, National Day Parade rehearsals, military exercises, etc. You must be available on selected evenings and Saturdays for these events.</p> <p>Successful interns will be attached to <i>So Drama!</i> Entertainment (SDE), a MINDEF Related Organisation for the duration of their internship.</p>	<p>1. Research paper</p> <p>2. Presentation</p> <p>3. Communications collaterals & products</p>	<p>1. You will learn more about media production operations and social media management.</p> <p>2. You will gain an understanding of MINDEF/SAF strategic communication objectives and considerations.</p> <p>3. You will gain insights into the opportunities and challenges in content production, and exercise creativity in enhancing communications efforts.</p> <p>4. You will learn more about research approaches and survey development considerations.</p>	<p>Preferred field of study: New Media, Communications, Marketing, Psychology, Sociology, Social Sciences, Political Science, Cultural Studies, Broadcast, Journalism, Video Editing, Production or any other related field</p> <p>Skills:</p> <ul style="list-style-type: none"> - Strong analytical and research capabilities. - Ability to write-well and work independently - Interest in media, audience profiling, and socio-cultural trends - Familiarity with use of social media, including social media editing tools e.g. Cap Cut, Instagram - Ability to write-well with good command of English language - Interest in media and communications <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcripts</p> <p>3. Portfolio (if available), links to examples of content created for personal or other social media accounts</p> <p>4. State proficiency/familiarity with technical software and equipment (if any) e.g. camera model and related equipment, software name</p>
8	Data Visualisation and Financial Analysis for Portfolio Resource Management	<p>You will be responsible for independently analysing data and creating visualisation to meet business analysis for resource management. On this, you will extract data from budgeting applications for budget review and forecasting. You will learn the fundamental financial accounting process, which will help in re-designing business processes and re-writing of policies. In addition, you will assist in website design and update relevant content on the website.</p>	<p>1. Data dashboards</p> <p>2. Financial Analysis reports</p> <p>3. Updates to website design and information on intranet</p>	<p>1. You will learn to develop financial analytical skills and gain proficiency in visualisation tools.</p> <p>2. You will develop collaborative and effective communication skills while working with team members and stakeholders translating design concepts into webpages.</p> <p>3. You will learn to collect, organise and verify information according to financial regulations and compliance standards.</p>	<p>Preferred field of study: Accountancy, Finance, Political Science or any other related field</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>
9	Enhancement of MINDEF/SAF IT Support Centres' Operations	<p>You will review and enhance MINDEF/SAF IT support centres' operations for better IT service delivery and user experience.</p> <p>In tandem with this project, you will:</p> <p>(a) Research on current painpoints, and</p> <p>(b) Propose and implement appropriate initiatives to enhance the IT support centres' operations.</p>	<p>1. Research Paper</p> <p>2. Presentation</p>	<p>1. You will learn about IT service delivery and operations.</p>	<p>Preferred field of study: Engineering, Information Technology (IT)</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>
10	Enhancing Youth Engagement	<p>You will conduct research and gather feedback to propose ideas and develop relevant content resources aimed at engaging Singaporean youths and Full-time National Servicemen (NSFs). The objective is to enhance their understanding of Singapore's historical and current challenges, our strategies for overcoming them, and our ongoing efforts to advance Singapore.</p> <p>In tandem with this project, you will:</p> <p>(a) Co-create content that supports Total Defence and National Education such as engagement packages for Racial Harmony Day, National Day,</p> <p>(b) Propose different ways to engage these target audience groups, and</p> <p>(c) Explore different platforms and modalities to enhance or augment our existing platforms (messaging group chats, SG101 repository and ConnexionSG social media pages) as well as new areas to explore.</p>	<p>1. Research paper</p> <p>2. Presentation</p> <p>3. Content Packages</p>	<p>1. You will learn to conduct target audience analysis.</p> <p>2. You will explore content development across different platforms.</p> <p>3. You will gain appreciation of strategic communications execution.</p>	<p>Preferred field of study: -</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>

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11	Exploring Data Science & Artificial Intelligence for Defence	You will support Data Science and Artificial Intelligence (DS & AI) projects for defence. On this, you will assist in developing and training models, writing reports and doing presentation. In addition, you will help in organising workshops for use case consultancy, executing "Learning Fridays". You will be able to contribute creatively to publications and UI design.	1. Prototype 2. Literature Review 3. Presentation	1. You will gain knowledge about DS & AI project lifecycle. 2. You will understand the work culture in MINDEF and the job scope of a data scientist in MINDEF. 3. You will have hands-on experience in Data Science projects.	Preferred field of study: Engineering, Statistics, Mathematics, Computer Science, Computing Those with relevant skillsets and interests may apply.	1. Resume 2. Latest academic transcript
12	Identifying Strengths and Gaps in Army's Safety	You will help to conceptualise and conduct Focus Group Discussions (FGDs) with stakeholders in the Army to identify gaps and strengths in the following topic areas: (a) Perception of safety during ICT for NS-men (b) Psychological safety in the Army (c) Safety mindsets in the Army (d) Heat-related illnesses and injuries With the findings, you will utilise appropriate tools to facilitate data analysis, assist in crafting a report and develop the communication package to disseminate the findings to stakeholders.	1. Research paper 2. Presentation	1. You will hone your ability to use sound research methods for applied research. 2. You will learn to apply group interviewing skills during the focus group discussions. 3. You will effectively communicate (via oral and written means) with stakeholders from a variety of ranks and backgrounds. 4. You will learn to use appropriate tools for data analysis (e.g., Excel, SPSS).	Preferred field of study: Psychology Skillsets: - Experience with focus group discussions or qualitative research - Willingness to travel to different camps to conduct FGD Those with relevant skillsets and interests may apply.	1. Resume 2. Latest academic transcript
13	IGNITE Innovation Movement	MINDEF/SAF's innovation movement, initiated in 1981, has shaped an organisational culture and innovative behaviour of continuous improvements in driving change. Since then, our innovation movement strategy has evolved from encouraging innovative thinking to enabling innovative doing. The core principles of IGNITE Innovation Movement are guided by a human-centred design approach, while focuses on solution-based thinking to effectively tackle problems and continuous reflections for improvements. You will be part of the team that: (a) Formulate and implement plans to support key innovation initiatives aligned to the innovation framework, (b) Design and review innovation programmes to strengthen the future of workplace, people capability leveraging on technology for transformation; (c) Profile MINDEF/SAF's innovation efforts through internal and external publicity and communications channels, and (d) Conduct research scans on innovation trends, methods, and best practices for learning and adoption opportunities. In addition, you will: (a) Plan and execute innovation day programme, (b) Plan and implement IGNITE communications schedules and campaigns, (c) Design and develop design tools and workshop assets for design sprints, and (d) Assist in facilitations for design thinking workshops and design sprints.	1. Conceptualisation and execution of innovation outreach programmes (e.g. design sprints, innovation day, playbooks, recognition incentives, and learning exchanges)	1. You will deepen own design thinking competencies by guiding learners through an impactful journey where they begin as novice learners and leave as enabled practitioners. 2. You will develop practical communication and change management skills. 3. You will hone visual design skills to enable innovative work spanning across Above The Line (ATL) to Below The Line (BTL) channels like digital, print, and outdoor.	Preferred field of study: Visual Communication Design, Product, Industrial Design Service Design or any other related field Those with relevant skillsets and interests may apply.	1. Resume 2. Latest academic transcript

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14	Impact of World Radio Conference and Revised Radio Regulation	<p>The World Radio Conference (WRC), held every four years, reviews the Radio Regulations (RR) that all countries abide by for the usage of Spectrum. As a "free and neutral space," countries follow the RR to ensure spectrum usage in their countries can be optimised and used efficiently without interference. Industries also look towards WRC and RR to support their technology development, as it lists down the services approved for usage in the spectrum band. For the Singapore Armed Forces (SAF), the outcome of WRC and its revised RR would impact our future capability development (Cap Dev) as well as the operations systems are already in service. Any changes that would affect our system, would result in high cost for shift in Cap Dev roadmap and impact our operations effectiveness.</p> <p>There is a need to re-visit the output of the recent WRC and ensure that the technical specifications listed do not affect our system. As the range of topics and technology is too extensive, the personnel who attended the conference are only able to ensure that operational impacts are minimised. However, it was observed that certain technologies sharing the same spectrum bands are said to be able to co-exist with the incumbent service listed in the RR. However, in the context of the SAF, there may be different operational considerations.</p> <p>In tandem with this project, you will:</p> <p>(a) Study the potential impact of co-existing systems on SAF operations if they continue to operate within the same spectrum bands,</p> <p>(b) Identify any limitations and operational impact on SAF systems when co-existing with other technologies, and</p> <p>(c) Propose solutions to mitigate any adverse effects on SAF operations.</p>	<p>1. Research Paper</p> <p>2. Presentation</p>	<p>1. You will understand the Spectrum management eco-system, the direct and in-direct impact of the changes made on spectrum bands that are not used by SAF.</p>	<p>Preferred field of study: Electronic, Spectrum, SATCOM, Mobile Cellular</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>
15	LinkeDIS	<p>LinkeDIS focuses on the design and development of a new job opportunities marketplace, akin to the LinkedIn Job portal, but internal to the Digital & Intelligence Service (DIS). Amongst other tasks, this will involve industry research and the mapping of business process workflows to facilitate the use of a system to be designed and developed by different stakeholders and users, with a focus on cultivating a positive user experience.</p>	<p>1. Research Paper</p> <p>2. Presentation</p>	<p>1. You will gain a better understanding and practical application of user interface (UI) and user experience (UX).</p> <p>2. You will contribute to the enhancement and optimisation of DIS's manpower resourcing process.</p> <p>3. You will gain exposure to the diverse requirements and stakeholders involved in HR in a large organisation.</p>	<p>Preferred field of study: Information Technology (IT), Business or Software Design</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>
16	MCN "Dropbox"	<p>You will be involved in App Design. MCN is a standalone Long-Term Evolution (LTE) Network. You will assist in designing a standalone "Dropbox" and storage system for MCN.</p>	<p>1. App</p>	<p>1. You will gain a better understanding and practical application of user interface (UI) and user experience (UX).</p>	<p>Preferred field of study: Information Technology (IT), Software Design/Coding or any related field</p> <p>Skillsets: - Experience/Knowledge on App coding, especially on Android is preferred</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>

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17	Media Operations Project for NDP 2024	<p>You will support the MINDEF Communications Organisation's (MCO) Media Operations Group (MOG)'s media and logistics requirements for the National Day Parade 2024 (NDP 2024).</p> <p>You will be intimately involved in media events and briefings to publicise NDP 2024. This includes:</p> <ul style="list-style-type: none"> (a) Planning, (b) Preparation of collaterals, (c) Sensing, collecting and analysing media reports, and (d) Management of media in the lead-up to, on and after NDP 2024. <p>You may also be required to propose ideas for social media campaigns. With your assistance, MOG aims to achieve excellent news coverage in mainstream and social media. You will work with the committee in-person and you will be required to work at the NDP 2024 venue or other event venues at times. You should also be prepared to work past normal working hours and on weekends to support events, time off will be given post-NDP.</p>	<p>1. Preparations and updates to NDP 2024 EXCO on media engagement and events</p> <p>2. Write-up on post NDP 2024 and After Action Review reports on media coverage</p>	<p>1. You will learn how to plan and manage media-related events.</p> <p>2. You will understand the strategic thought process and logistical planning that goes into large scale national events, including sentiment monitoring and analysis.</p> <p>3. You will learn how to communicate key messages to internal and external stakeholders, the media and public, as part of a larger Strategic Communications Plan developed for National Day.</p>	<p>Preferred field of study: Communications, New Media, Social Sciences, Arts, Humanities, Management or any related field</p> <p>Additional information: - You must be comfortable with odd working hours and working on weekends.</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>
18	Mental Health Trends and Implications for National Service	<p>In 2023, Singapore's total fertility rate dropped to a historic low of 1.05. At the same time, the 2022 National Population Health Survey found that the highest proportion of Singapore residents with poor mental health were between 18 and 29 years old.</p> <p>In light of these national trends, MINDEF intends to conduct a deep dive into the NS mental health landscape. Specifically, you will assist to:</p> <ul style="list-style-type: none"> (a) Analyse data related to current and prospective National Service (NS) cohorts, to better understand the characteristics of Singapore's NS mental health landscape, (b) Research how foreign conscription regimes are addressing mental health, to identify best practices and learning lessons for Singapore, (c) Assess and evaluate if MINDEF is adequately prepared for the national defence implications of the mental health landscape; and has adequate provisions in place to support NSFs' mental health and well-being, and (d) Propose solutions to address these gaps. 	<p>1. Presentation</p>	<p>1. You will be able to acquire and exercise a wide range of skills including qualitative research; quantitative data analysis; data visualisation and communication; and evidence-based policymaking.</p> <p>2. There will also be engagement with internal and external stakeholders, as the project team seeks to leverage Whole-of-Government networks to derive insights and innovate solutions.</p>	<p>Preferred field of study: -</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>
19	OneNS: Elevating NS Experiences for All	<p>OneNS is MINDEF/SAF's most ambitious project to transform the National Service (NS) experience for NSmen, Full-time National Servicemen (NSFs), SAF Volunteer Corps (SAFVC), and Pre-Enlistees, as well as other MINDEF/SAF profile groups. It is powered by a suite of cloud-based backend components, and has two channels - mobile app and web portal. It also serves as a pathfinder for digital transformation in MINDEF.</p> <p>To elevate NS experience for citizens, you will conduct detailed business process mapping by 'following the documents' to identify areas for business and digital transformation to reap high payoffs. You will also conduct user research on pain points identified to be resolved in future releases. On this, you will also conduct user acceptance test and testing for application builds. In addition, you conduct research to validate problem statements and A/B testing to validate features.</p>	<p>1. Detailed business process mapping for NS related transactions</p> <p>2. User acceptance testing for to-be released features</p>	<p>1. You will learn vendor management and project management.</p> <p>2. You will be involved in supporting the conduct of trials.</p>	<p>Preferred field of study: -</p> <p>Those with relevant skillsets and interests may apply.</p>	<p>1. Resume</p> <p>2. Latest academic transcript</p>

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20	Pressure Training Applications in the Military	<p>Pressure training (PT) strategically increases pressure during training to improve athletes' abilities to cope with pressure during competitive settings. Although evidence suggests that PT can improve performance under pressure, implementation of PT can be challenging in applied settings. In the military setting, PT has value to enhance the ability of soldiers to cope with psychological stressors inherent during military operations and training.</p> <p>In tandem with this project, you will:</p> <p>(a) Conduct an extensive review of the research on how pressure/stress has been applied in the sport or high-performance settings to enhance performance and coping abilities of elite performers, and</p> <p>(b) Devise various concrete methods to implement PT with small to large groups of soldiers to enhance their performance during high-challenge training.</p>	<ol style="list-style-type: none"> 1. Research paper 2. A training handbook for SAF Commanders to implement Pressure Training in units 3. Presentation 	<ol style="list-style-type: none"> 1. You will understand and experience the dual roles of a researcher and practitioner (Defence Psychologist) in applied psychology in a public organisation. 2. You will conduct literature review across different disciplines of psychology, integrating theory into practice and proposing practical solutions to improve the organisation. 	<p>Preferred field of study: Psychology</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript
21	Sentiment Analysis Models to enhance Target Audience Analysis (TAA)	<p>In tandem with this project, you will:</p> <p>(a) Conduct literature review to identify state of the art (SOTA) models for sentiment analysis,</p> <p>(b) Understand given dataset, which will be a combination of structured and unstructured data,</p> <p>(c) Propose suitable model for sentiment analysis, with the use of ensemble methods if necessary,</p> <p>(d) Conduct model retraining and validation based on given dataset, and</p> <p>(e) Generate suitable outputs such as word cloud or sentiment score.</p> <p>Throughout the internship, you will be working closely with Communications Data Science and Analytics (CDSA) officers who will provide hands-on guidance.</p>	<ol style="list-style-type: none"> 1. A prototype model that can: <ol style="list-style-type: none"> (a) Perform sentiment analysis on given combination of structured and unstructured data (b) Display suitable data visualisation or calculation of sentiment score 	<ol style="list-style-type: none"> 1. You will learn and apply state of the art (SOTA) models for sentiment analysis in a real-world environment; 2. You will understand how CDSA conduct Target Audience Analysis (TAA) with the use of technologies and domain knowledge. 	<p>Preferred field of study: Computer Science, Information Systems, Data Science or Data Engineering</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript
22	Team Resilience in the Military	<p>Psychological resilience has been mostly studied at the individual level but team resilience has only recently been given more theoretical and empirical consideration. Although the interest has grown in recent years, research on team resilience suffers from inconsistent conceptual and methodological approaches.</p> <p>Through literature review of latest research publications in psychology and that of other militaries, you will assist to derive an operational definition of team resilience and a workable competency or development model that will allow assessment, development and training interventions to be designed that is suitable for applicable to enhance team resilience in the military context.</p>	<ol style="list-style-type: none"> 1. Research Paper 2. Presentation 	<ol style="list-style-type: none"> 1. You will understand and experience the dual roles of a researcher and practitioner (Defence Psychologist) in applied psychology in a public organisation. 2. You will conduct literature review across different disciplines of psychology, integrating theory into practice and proposing practical solutions to improve the organisation. 	<p>Preferred field of study: Psychology</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript
23	Techscan to Improve Digital Offerings in MINDEF/SAF	<p>In tandem with this project, you will:</p> <p>(a) Work with process owners to understand problem statement,</p> <p>(b) Conduct market scan, search and analysis to recommend ready-made product for adoption,</p> <p>(c) Work with supervisor to map the product adoption process, and</p> <p>(d) Unlock security challenges and change management to improve adoption.</p>	<ol style="list-style-type: none"> 1. Delivery of one to two ready-made product(s) for MINDEF/SAF 2. Recommendations for new digital options as stretched ambition for MINDEF/SAF 	<ol style="list-style-type: none"> 1. You will understand the security challenges in adopting technology in a security organisation. 2. You will learn about emergent technology and the reciprocating effort in getting users to adopt them. 	<p>Preferred field of study: -</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript
24	Use of Generative Artificial Intelligence (GAI) for Psychological Research	<p>You will examine the applications and limitations of Generative Artificial Intelligence (GAI), such as ChatGPT, to increase efficiency in different stages of psychology research (i.e., research question, research method, research output). Example of such uses include literature review and data exploration.</p> <p>Your findings will be useful for future reviews of the Defence Psychology Community (DPC) Competency Framework and DPC research projects.</p>	<ol style="list-style-type: none"> 1. A user guide and presentation on the uses of GAI for psychological research 	<ol style="list-style-type: none"> 1. You will acquire the skills to better leverage on GAI in psychological research, which will enable you to stay abreast of the latest developments in psychological knowledge in your future work. 	<p>Preferred field of study: Psychology</p> <p>Skillsets: - Interest in data science</p> <p>Those with relevant skillsets and interests may apply.</p>	<ol style="list-style-type: none"> 1. Resume 2. Latest academic transcript

MINDEF Internship Programme for University Undergraduates 2024

Application Period: till 31 March 2024
Internship Period: Summer (Around May – Aug)



S/N	Project Title	Project Description	Project Deliverables	Learning Outcomes	Prerequisites	Supporting Documents
25	Wireless@SG Rollout for MINDEF/SAF	<p>You will support the proliferation of Wireless@SG in MINDEF/SAF camps and bases, as well as review and enhance existing pre/post implementation processes to provide better user experience.</p> <p>In tandem with this project, you will:</p> <ul style="list-style-type: none">(a) Research on gaps in existing pre/post implementation processes,(b) Propose and implement appropriate initiatives, and(c) Change existing processes for better user experience.	<ul style="list-style-type: none">1. Research Paper2. Presentation	<ul style="list-style-type: none">1. You will gain project management skills.	<p>Preferred field of study: Engineering, Information Technology (IT)</p> <p>Those with relevant skillsets and interests may apply.</p>	<ul style="list-style-type: none">1. Resume2. Latest academic transcript