

Project title	Project description	Project requirements (eg: Microsoft excel skills, Research skills)	Internship duration	Level	Course of Study
Develop radionuclides databases for analysis of environmental and food matrices.	To build a library of scientific information (e.g. decay emission scheme, coincidence summing information and half-life) on key radionuclides of interest present in environmental and food matrices. The intern will be required to conduct literature review and search on established atomic and nuclear data to compute the radionuclides databases.	Microsoft excel, good analytical and research skills	4-6 weeks Normal internship	Diploma	Science and Engineering
Enhance licensing service outcomes for retail food establishment licences	The Central Licensing Branch (CLB) aims to improve service standards for NEA's licensing across sectors. This project will involve the intern to develop and implement initiatives to encourage food establishment applicants/licensees to use online licensing service, i.e. LicenceOne, for all licensing transactions with NEA and promote use of electronic payment mode for licence fees.	MS Excel	Any time in the year	Diploma	Any
Conceptualisation of a gaming app to improve environmental knowledge and influence positive behaviour	To conceptualise a gaming app and draft game contents to improve environmental knowledge and influence positive behaviour	Good research, app development	Any time in the year	Degree/ Diploma	Social science, Science
Development of a gaming app to improve environmental knowledge and influence positive behaviour	To develop a gaming app to improve environmental knowledge and influence positive behaviour. This project would require interns with IT skills to develop gaming apps.	App development	Any time in the year	Degree/ Diploma	Computing
An Analysis of Littering Issues in Singapore's South West District	The project focuses on littering issues in Singapore's South West District. A study of the cleanliness issues of the 17 constituencies in the South West District will be done through Feedback and Enforcement statistics analysis and site visits. Through a comparative analysis of littering patterns and response strategies, correlations drawn can then be explored for their practical application to the 17 different constituencies. The interns will have field experience with officers on feedback and enforcement rounds as well as Corrective Work Order supervision.	Good research and data analysis skills Competent in Excel or other statistics software	Any time in the year	Degree/ Diploma	Mathematics/ Economics/ Statistics/ Geography/ Science
A Clean Slate: Fresh perspectives on High Rise Littering in Singapore	This project focuses on high rise littering in the South West District. A study of the high rise littering trends of the 17 constituencies in the South West District would be done based on feedback and enforcement data. A comparison between the type of estates and high rise littering patterns will be conducted, followed by an evaluation of the effectiveness of the different strategies to manage high rise littering. The interns will have field experience with our officers on feedback and enforcement rounds as well as camera deployment audits.	Good research and data analysis skills Competent in Excel or other statistics software	Any time in the year	Degree/ Diploma	Mathematics/ Economics/ Statistics/ Geography/ Science
Developing a system for auditing of gravitrap maintenance	Review the process of collecting, organising, compiling and retrieving the data, to propose a systematic and more efficient method, using easily available / customisable solutions, without need for significant capital investment or expertise to revise/adjust the solution if needed.	Systems and processes Microsoft excel, app development	Any time in the year	Degree/ Diploma	ICT
Expert Knowledge Retention (EKR)	Expert Knowledge Retention (EKR) is an on-going project to retain individual expert knowledge, whereby experts will share their valuable experiences and technical knowledge in their areas of work. The internship will give the intern exposure to practical real-life work situations on technical knowledge retention. The intern will learn (i) how to research a particular technical topic (without having prior exposure/knowledge on the subject) (ii) how to craft interview questions that elicit tacit technical knowledge from expert (iii) tips on putting expert at ease before conducting interview (iv) how to help the expert stay focused on the topic during interview session (v) how to sieve out useful knowledge from the recordings of the interview sessions (vi) how to craft EKR documents in a narrative format for easy reading (vii) how to encourage utilisation of EKR and other knowledge assets (e.g. through a knowledge portal) The intern will achieve the learning through the following activities: (i) carry out research activities after being briefed on research techniques including narrowing the research focus (ii) prepare draft EKR document outlines, and craft questions that will elicit tacit knowledge with guidance (iii) observe the conduct of actual interview sessions, report to his/her supervisor what the expert had shared, and the technique including how the interviewer steer the expert to stay focussed with the view of being given opportunity to carry an interview (iv) transcribe oral interviews, sieve out useful knowledge from the interview recording, and draft EKR document in a narrative format (v) assist in carrying various initiatives to improve utilisation of knowledge assets in the knowledge portal	Skills: - Research skills - Interview skills - Narrative writing skills - Copy-editing skills. Language: Strong command of the English language Basic understanding of knowledge management will be useful.	Minimum 3 months	Degree	Bachelor of Communication Studies, Bachelor of Arts and Social Sciences. (Students specialising in journalism and publications will be preferred)
Enhancing 3Rs in Singapore	1) Study 3R outreach efforts/programmes in other countries 2) Assess and recommend outreach initiatives or programmes to improve recycling rate of households, trade premises, schools, etc. in Singapore	MS Office Good analytical, communication, interpersonal and writing skills	Min 3 months	Degree / JC	Environmental Engineering preferred but would consider students doing other courses

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Interactive data visualisation of construction noise data and feedback	<p>At its peak, the Construction Noise Unit received about 20,000 construction noise feedback in a year. While the number of construction noise feedback has decreased in recent years, the Noise Unit continues to receive feedback in the order of 10,000 annually.</p> <p>The large number of noise readings and feedback dataset presents an interesting opportunity for interactive data visualisation and analysis to uncover new insights, patterns and trends on noise complaints.</p> <p>Also, internal reports on construction noise statistics are currently compiled manually and is a laborious process with much room for efficiency improvements.</p> <p>The intern will be required to parse noise readings and feedback data into a database format suitable for developing an offline GIS-based application for interactive data visualisation of noise feedback received at specific worksites with query features to filter the results by time periods, location of complainant, types of noisy work, prosecution status, etc. The intern is encouraged to suggest additional useful features in the application to improve the visualisation of data. The application developed by the intern would serve as a proof of concept for future developments.</p>	Computing and data analytics skills including proficient knowledge of scripting languages e.g. Python, JavaScript or equivalent and knowledge of GIS software e.g. ArcGIS, QGIS or equivalent.	Minimally 3 months	Degree	Geography/ Computer Science/ Computer Engineering
Evaluation of Carbon Dioxide as a Rodenticidal Burrow Asphyxiate	This project seeks to evaluate the usage of carbon dioxide gas to eliminate rodents from within soil burrows. Carbon dioxide can be delivered into infested burrows either via pumping in compressed CO2 gas or by applying dry ice. This approach does not cause secondary poisoning as compared to anticoagulant baiting, euthanizes rodents in a humane manner as they fall asleep before succumbing and the associated ectoparasites also succumb to the carbon dioxide. Results from this pilot trial is expected to inform Pest Management Professionals on the viability of CO2 treatment which has been proven effective in New York.	<p>i) Research skill</p> <p>ii) Willing to work outdoors</p> <p>iii) Not highly averse to rats</p>	Normal Internship	Degree	Life Science (Biology)
Managing indoor air quality (IAQ) of newly renovated spaces	<p>The project aims to collect information to support efforts to reduce indoor pollution arising from renovation activities. Specifically, we hope to be able to</p> <p>(1) better understand the IAQ of newly renovated spaces,</p> <p>(2) identify renovation products with high tendency of emitting chemicals, and</p> <p>(3) identify areas for improvement in existing schemes.</p> <p>Renovation products commonly emit a myriad of chemicals, including formaldehyde, which could be harmful to the occupants. When used in poorly ventilated spaces, the indoor air quality (IAQ) could be compromised.</p> <p>This project requires (1) field measurements of formaldehyde and total volatile organic compounds levels at renovation sites, and (2) a review of existing schemes. From the result, we hope to be able to (1) better understand the IAQ of newly renovated spaces, (2) identify renovation products with high tendency of emitting chemicals, and (3) identify areas for improvement in existing schemes. The information collected will support efforts to reduce indoor pollution arising from renovation activities.</p>	<p>1. Able to gather and review information from various sources (e.g. internet, publications or product sheets)</p> <p>2. Able to use Microsoft office (e.g. Excel, PowerPoint and words)</p> <p>3. Able to work during off-office hours (e.g. on Saturdays)</p>	Preferably FYP	Degree/ Diploma	Any
Optimization of LAMP assays for the detection of arboviruses	<p>The project aims to optimize loop-mediated isothermal amplification (LAMP) assays for the detection of DENV, CHIKV and ZIKV, preferably in mosquitoes.</p> <p>The project aims to optimize loop-mediated isothermal amplification (LAMP) assays for the detection of DENV, CHIKV and ZIKV, preferably in mosquitoes. The activities include literature surveys for suitable primers, primer design/modification, assay design, optimization and the evaluation of performance parameters.</p>	PCR, RNA extraction, lab safety	Preferably FYP	Degree/ Diploma	Biological Sciences
In silico characterization of non-synonymous substitution catalogue of DENV and CHIKV	<p>The project aims to catalogue unique non-synonymous substitutions of DENV and CHIKV detected in Singapore in the last decade and to characterize the structural implications of each substitution in silico. The ultimate aim is to shortlist the substitutions of phenotypic significance.</p> <p>The project aims to catalogue unique non-synonymous substitutions of DENV and CHIKV detected in Singapore in the last decade and to characterize the structural implications of each substitution in silico. The ultimate aim is to shortlist the substitutions of phenotypic significance. The activities include data retrieval, sequence alignment, mutation mapping, protein database search, 2D/3D structure modelling and interpretation.</p>	Basic skills on sequence alignment and phylogenetics, Computer literacy	Preferably FYP	Degree/ Diploma	Informatics
An evolutionary synopsis of DENV-2 in Singapore: 2011-2017	<p>The project purpose is to consolidate our understanding of the diversity and transmission patterns of DENV-2 genotype since 2011.</p> <p>The project aims to decipher the evolutionary characteristics of DENV-2 strains recorded since 2011 in Singapore. The comparative analyses will include the assessments of ancestry, evolutionary rate, population heterogeneity, selection and dispersal of different strains in relation to their transmission success.</p>	Basic skills on sequence alignment and phylogenetics, Computer literacy, Microsoft Excel	Preferably FYP	Degree/ Diploma	Biological Sciences
Characterisation of <i>wPip-Aedes aegypti</i> and its potential use for the Wolbachia-based Incompatible Insect Technique	<p>The project aims to assess the impact of Wolbachia pipientis (wPip) bacterium on the transfected <i>Aedes aegypti</i> (wPip-<i>Aedes</i>) mosquitoes.</p> <p>The project aims to assess the impact of Wolbachia pipientis (wPip) bacterium on the transfected <i>Aedes aegypti</i> (wPip-<i>Aedes</i>) mosquitoes. This is a novel strain of wolbachia-transfected <i>Ae. aegypti</i> which is being evaluated for its suitability for use in Wolbachia-based Incompatible Insect Technique. The lab-based study will focus on establishing the fecundity and hatch rate; maternal transmission efficiency; wolbachia density in the female population, cytoplasmic incompatibility, age of male mosquitoes on CI, male mating competitiveness and longevity.</p>	Microscopy, molecular, literature review	Preferably FYP	Diploma	Biological Sciences

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Littering and Smoking - Survey to understand causes	Survey (and engagement) at specific littering/smoking problematic areas (eg Khatib MPC; schools) to understand the driving forces behind the persistence of the problems	Good research and data analysis skills Competent in Excel or other statistics software May need to work on weekends (ad hoc, if needed)	12 weeks	Degree	Behavioural Studies
"Shock and Awe"	Establish ground-up initiatives in NEA: depiction of visuals from cigarette butt collection with the aim to link to health and environment consequences of widespread littering of cigarette butts	Good research and data analysis skills Competent in Excel or other statistics software May need to work on weekends (ad hoc, if needed)	12 weeks	Degree	Behavioural Studies
Analysis of mosquito gravitrap data	To analyse gravitrap data and determine the possibility of detecting mosquito breeding from positive gravitraps detected in 3D spatial distance	Good research and data analysis skills Competent in Excel or other statistics software	8 weeks	Degree/ Diploma	Analytics
Analysis of localised mosquito gravitrap data	To analyse if there is any correlation between mosquito breeding found and positive gravitraps in localised areas	Good research and data analysis skills Competent in Excel or other statistics software	8 weeks	Degree/ Diploma	Analytics
Building civic capacity to tackle littering	Crowd tasking and citizen science : Survey of public on joint-solutions for littering and HRL	Good research and data analysis skills Competent in Excel or other statistics software	8 weeks	Degree	Behavioural Studies
Littering survey at beach & shop fronts	Evaluate effectiveness of measures implemented at the top littered locations (beach parks, shopfronts etc.) and propose alternative solutions	Good research and data analysis skills Competent in Excel or other statistics software May need to work on weekends (ad hoc, if needed)	8 weeks	Degree	Behavioural Studies
Littering and Smoking Indicators Survey - Addressing Enforcement Effectiveness In Singapore.	<p>Managing smoking and littering offences are two longstanding issues which NEA manages year-round. The approaches in tackling these issues primarily fall under the twin pillars of enforcement and education.</p> <p>This project will focus on exploring how current enforcement resources are deployed across the the different hotspots islandwide and assess the effectiveness of the different enforcement strategies employed.</p> <p>Through this project, the intern will:</p> <ol style="list-style-type: none"> Analyse feedback and enforcement statistics for known littering and smoking hotspots; Conduct a comparative analysis on the effectiveness of different enforcement deployment tactics; Gather primary data through fieldwork and survey; Represent findings in an informative manner; and Gain a comprehensive understanding of littering and smoking enforcement trends in Singapore. 	Good research and data analysis skills Competent in Excel or other statistics software	24 weeks (6 months)	Degree/ Diploma	Nil
Traffic management at Mandai crematorium and columbarium complex	Annually, during the Qing Ming period, heavy traffic congestion occurs at the MCC when next-of-kin pay their visits to the 100,000 niches of their loved ones. Intern is to study the feasibility of managing vehicular traffic to the MCC, through an online appointment system, with a pre-determined "quota" of vehicles each day, where control of vehicular access is via electronic gantries using the IU number of the vehicle as the permit for entry	Polytechnic or ITE student with interest to apply technology to solve real-life problems are welcome to apply	8 weeks	Degree/ Diploma	Engineering
Voluntary scheme for Environmental Control Officers (Trial)	The ECO scheme is mandatory for construction sites, where a qualified employee is appointed to audit, advise and implement measures to ensure certain environmental conditions. We are piloting the ECO scheme in a new type of premises, where we will work with stakeholders to assess the operational requirements of the scheme and feasibility.	Microsoft office skills, public engagement skills, presentation skills	Any time in the year	Degree	Facility Management or Real Estate
Food Waste Reduction (FWR) Outreach Programme	The intern will participate in the Food Waste Reduction (FWR) Outreach Programme, by assisting in the following initiatives: - Implement the pilot "Love Your Food @ Canteens" clean plate challenge in the staff canteen of Environment Building (Jan to early Mar) - Guide external participating organisations in the Love Your Food @ Canteens clean plate challenge - Engage caterers, food courts and hawker centres on FWR initiatives - Develop FWR communication materials targeted at bakeries - Engage commercial and industrial premises that participated in the food waste audits on FWR	Competent in MS Office. Good analytical, communication (both verbal & written) and interpersonal skills.	Min. 3 months	Degree/ Diploma	Environmental Engineering/ Environmental Science preferred but would consider students doing other courses
Optical Character Recognition (OCR) on Submission Forms through E-services (Phase II)	This project aims to perform Optical Character Recognition (OCR) on submission forms through various E-services provided by NEA to enhance service delivery through automation and digitalisation. The scope involves implementation of OCR algorithms/techniques, with integration into existing workflow as the end goal.	- Analytics software such as R or Python. - Experience in image processing will be advantageous	3 to 6 months (Normal Internship)	Degree	Business Analytics, Computing in Computer Science, Data Science & Analytics Engineering in Computer Science Engineering in Computer Science Science in Data Science and Artificial Intelligence
Predictive Modelling on Environmental Datasets	This project aims to perform feature engineering based on various data sources (e.g. weather/meteorological data, air pollutant sensor, etc.) and develop predictive models to support policy-level decision making, operations and service delivery.	- Analytics software such as R or Python. - Visualization software/tools such as Tableau, Qlik or Shiny	3 to 6 months (Normal Internship)	Degree	Business Analytics, Computing in Computer Science, Data Science & Analytics Engineering in Computer Science Engineering in Computer Science Science in Data Science and Artificial Intelligence

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Feasibility Study of Food Waste Conveyance System in Hawker Centres	To carry out feasibility study of food waste conveyance system in Hawker Centres 1. To determine which hawker centres are suitable and not limited by constraints (space, power etc.) 2. To determine which system(pneumatic or gravity) is suitable 3. To determine the benefits/effectiveness of the system 4. To obtain cost estimates and schedule for each feasible centre	Food waste management, research skills, project management, presentation skills, report writing	6 months	Degree	Civil/Chemical or Environmental Engineering
Develop Building Information Modelling (BIM) and asset information management for existing hawker centres	1.To develop BIM for existing hawker centres based on as-built drawings. 2. To create asset information database/list(installation date, maintenance and repairs schedule etc.) for building operations and asset management 3. To study and make recommendations on the use of BIM for facilities maintenance	Knowledge of BIM and computerised maintenance management system, presentation skills, and report writing	3 to 6 months	Degree/ Diploma	BIM / Facilities Management/Construction Management/Architectural
UNESCO	Prime Minister announced at National Day Rally 2018 that Singapore is nominating hawker culture for the UNESCO list of Intangible Cultural Heritage of humanity. The intern will have an opportunity to support the nomination campaign in terms of generating content and engaging hawkers to profile stories for the respective hawker centres, and engaging the public to appreciate and support hawker culture	Communication	3 to 6 months	Degree/ Diploma	Communication
Marketing through influencers	Conceptualise and implement effective communication through influencers to increase awareness on hawker centres related initiatives (e.g. tray return, sustaining hawkers trade, profiling of hawkers). Interns would have the opportunity to gain exposure in conceptualisation, scripting, scheduling and resource management of videos as well as filming.	Degree/ Diploma in the field of filmology/ videography/ photography/ mass communications/ Design & Media/ Arts/ Communications & New Media/ screen writing, multi-platform storytelling, branded digital storytelling	6 months	Degree/ Diploma	Design and Media/ film/ video/ photography/ Communications & New Media/ Arts (e.g. interactive media, visual communication, game design, mobile interaction design, interactive storytelling etc.)
Extreme Sea level historical anomalies using tide gauge observations	This project investigates the extent of extreme sea level anomalies (variability and change) taking into account existing datasets of observed sea level across different parts of Singapore and their limitations. There are various ways to quantify the anomalies (e.g. skew surges and residual surges) and their risk (extreme value analyses) and the challenge comes from the limited datasets available.	Programming skills, data analysis (statistics) and visualisation Recommended programming languages: R, or Python Others: Matlab, Microsoft Excel	Normal Internship: Preferably 3 to 6 months	Degree	Meteorology/Mathematics/ Physics/ Engineering students with the relevant skillset
Validation and Monitoring of Extreme Weather and Climate Events using Space-borne products	An increase in the availability and accessibility of data products from space-borne sensors (satellites) brings about a more widespread use of these data. Space-borne sensor systems bring about benefits in the ability to cover an extensive spatial region while providing a reasonable updating rate. This provides timely data to verify predictions in the sub-seasonal and seasonal time-scale. However, the accuracy of the measurements may be distorted by atmospheric effects or by the sensor's calibration drift, while the data resolution is restricted to the system specifications. Studies are needed to understand the usefulness of space-borne sensor data. In this project, you will study the possibility to use multiple space-borne systems and investigate the usefulness and feasibility of space-borne monitoring of extreme weather and climate events, and the effect of these events. As majority of the disasters in ASEAN region fall under hydrological events, the focus will be on flood and drought, and the extreme events causing them.	1/ Remote sensing/GIS knowledge 2/ Familiarity in basic programming skill (e.g. Matlab, Python3) 3/ Data analysis (statistics)	Normal Internship: Preferably 3 to 6 months	Degree	Meteorology/Mathematics/ Physics/ Engineering students with the relevant skillset
Calibration of ECMWF Sub-seasonal-to-seasonal (S2S) ensemble temperature re-forecasts for extreme temperature forecasts over Singapore and the South-East Asia region	Singapore experienced 6 episodes of a 'heatwave' in the March to May inter-monsoon seasons since records began in 1979; all of which coincided with El Niño years in the decay phase. The heatwaves show week-to-week variability which will be useful to predict for conditions that worsen or provide relief. Sub-seasonal prediction systems are suitable for capturing such episodes since they are tailored to forecast weekly anomalies up to one month ahead. In this project, you will examine and apply the various post-processing calibration methods to the raw ECMWF re-forecast dataset, so as to further improve the forecast quality in terms of reliability and sharpness for these episodes. Specifically, you will concentrate on calibrating the ECMWF re-forecasts with the help of specific training datasets in a leave-one-out cross-calibration mode. Time permitting, you may also explore a multi-model ensemble approach as an alternative post-processing method to achieve better forecast skill.	1/ Ability to handle climate datasets. 2/ Familiarity with common programming/scripting languages for data processing and visualisation, such as Climate Data Operators (CDO), Python, R or NCL (NCAR Command Language) and BASH. 3/ Data analysis (statistics) 4/ Some knowledge of Machine Learning is preferred.	Preferably long-term due to the complexity of the project: 4 months or longer.	Degree	Meteorology/Mathematics/ Physics/ Engineering students with the relevant skillset
Active and Break cycles of Precipitation within a season over the Malaysia Peninsula and Singapore	This project investigates active and break cycles of precipitation in the observation (data analysis) within a season: with a focus on both monsoon Seasons and inter-monsoon Seasons based on the seasons identified using the weather regime method.	1/ Programming skills, data analysis and visualisation 2/ Recommended programming languages: R, or Python 3/ others: Matlab, Microsoft Excel	Normal Internship: Preferably 3 to 6 months	Degree	Meteorology/Mathematics/ Physics/ Engineering students with the relevant skillset
Wet and cold spells in Singapore	Singapore rainfall is predominantly made of short duration afternoon thunderstorms but prolonged rainfall episodes lasting for several days in a row (or wet spells) do happen but are less common. When a wet spell occurs, it may trigger a prolonged period of low temperature or a cold spell in Singapore such as the the severe cold spell experienced in Singapore on the 10th to the 14th of January 2018 which attracted a lot of media interest. Wet and cold spells are major weather events. Hence, it is important to have a good characterization of these events. In this project, you will examine rain gauge records over Singapore and determine the length or duration of historical wet spells, their frequency and rainfall amount. You will also examine historical temperature records and explore the connection between wet spells and cold spells.	1/ Statistical knowledge - error estimation, time series analysis, basic regression techniques. 2/ Familiarity with common programming and scripting language for data processing, particularly Python or R	Normal Internship: Preferably 3 to 6 months	Degree	Meteorology/Mathematics/ Physics/ Engineering students with the relevant skillset
Statistical Analysis of Numerical Weather Model (NWP) Model Forecasted Precipitation	By performing statistical analysis of NWP model forecasted precipitation, we intend to find out any interesting characteristics of the forecasted field such as biases, duration-intensity-scale relationship etc., which are important to model verification and model improvement.	Skills: • Familiar with Python programming • Basic knowledge of math and statistics	Normal Internship duration	Degree/ Diploma	General courses of science

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Media production of TV Weather Videos	Involvement in digital media production of weather-related videos for public outreach and education. Student will contribute to the creative process of video production including pre-production, filming, editing and building up of media library collection.	Interest in creative writing, media production, design Experience with Adobe Creative Suite a plus	6-12 months	Degree/ Diploma	Media and Communications, Art & Design, Film & Television
Satellite Remote Sensing for Fire Hotspot and Weather Monitoring	Contribute to the development and processing of satellite remote sensing products for fire hotspot and weather monitoring. Prototyping and assist in the operational implementation of new satellite products.	Interest in problem-solving, data analysis and satellite remote sensing Basic programming knowledge Experience with Python, Linux Shell Script or GIS a plus	12 weeks	Degree/ Diploma	Physics, Math, Statistics, Engineering, Computing
Quantitative analysis of weather data affecting air traffic operations	The project involves analysis of meteorological data to identify the conditions affecting air traffic operations	- Able to programme (preferably in Python) to analyse large volumes of data - Able to work with geospatial and textual data, and develop a systematic approach to analyse large volumes of data - Able to conduct statistical analysis - Possess knowledge in Physics and Advanced Mathematics - Proficient in MS Office programmes to present and report on results of his/her analytical study	6 months, beginning anytime as soon as possible	Degree	Math, Computing
Characterisation of ambient Volatile Organic Compounds in Singapore	To characterise profile and determine concentration of ambient Volatile Organic Compounds (VOCs) in Singapore 1) during major smell incidents and 2) other conditions using data analytics and data such as readings of VOCs and public feedback. Knowledge gained in this study may help NEA better understand variation of various VOCs throughout the year so as to better manage future smell complaints.	Prefer science students with some IT skills eg Excel. Programming knowledge would be an advantage.	8 weeks (Dec 2018 - May 2019)	Degree	Science
NEA BIS and Management Dashboard	To develop a Business Intelligence System (BIS) that provides new capabilities to NEA as a dynamic business insight generation system to support self-service reporting and analysis, better decision making and promote ownership of information at the operational and management levels. They will be responsible to perform dashboard building, predictive modelling and a good understanding of the business process and requirements.	1. Experience in coding using SQL, R or Python 2. Good sense of data analytics 3. Advanced Microsoft excel skill such as able to write macro programming 4. Experience in using QLIK Sense Visualisation tool (if not training will be provided)	3 to 6 months	Degree	Computer Science, Computer Engineering, Industrial System Engineering, Data Analytics, Information Systems Technology and Design