TEACHER WORK ATTACHMENT

Wonder what it is like to be a

Science Catalyst, Digital Ninja or Imaginator?

Join us to find out.

WHAT?



4-week attachment to Science Centre Singapore

Authentic and engaging hands-on experiences

Opportunity to **network** with experts, like-minded educators and partners

WHY?



Through insights into creating the Science Centre experience

Discover new ways to bring Joy of Learning to students

Spark their curiosity and sense of wonder

WHEN?



Period is negotiable.

17 May - 10 Jun 2022

25 Oct - 18 Nov 2022

Longer-term secondment opportunities are also available. Keep a look out during APEX!

WHO?

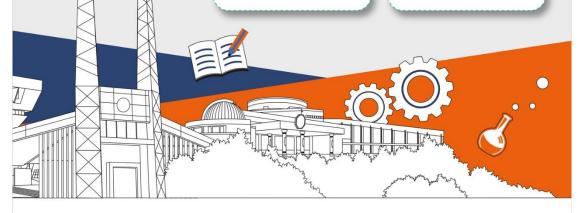


PASSIONATE teachers, including non-science teachers!

HOW?



Click here to find out more about the available opportunities!





Teacher Work Attachment at Science Centre Singapore 2022

Duration: 4 weeks

Period: a) 17 May - 10 June 2022 OR

b) 25 Oct - 18 Nov 2022

c) TWAs of different durations need to be discussed on a case-by-case basis.

Number of attachments: Maximum of 20 attachments in total for each attachment period

Application

For MOE officers, please visit http://intranet.moe.gov.sg/academy/TWA/Pages/TWA.aspx. Academy of Singapore Teachers (AST) will facilitate the application.

For non-MOE officers (e.g. teachers from independent schools), please submit your application here: https://www.form.gov.sg/5fe99cdc315aec001150e61e

Deadline

The application deadline for May's attachment is 1 April 2022. The application deadline for October's attachment is 2 September 2022.

Enquiries

For enquiries, please email to teachers@science.edu.sg.

Teachers from all backgrounds, including non-science teachers, are welcome. You will have the opportunity to work alongside staff of the Science Centre and to broaden your experience beyond the school environment. The Science Centre experience focuses on having fun while developing skills and complements the formal curricula in schools. The attachment will give you different perspectives and let you gain experience and skills in developing experiential and engaging programmes.

The attachments will be coordinated by our Education Programmes division but depending on the area of attachment, teachers may be attached to various departments within Science Centre and will have the opportunity to observe and assist in developing and conducting programmes.



All teachers will undergo an orientation programme before starting specific attachments.

Time	Activity	Description
Day 1	Logistics, orientation and meeting staff	Arrangement for seating, access into the building, parking, internet access, etc
Day 2 - 3	Overview of Science Centre and education and exhibition programmes	The programme involves both presentations as well as an experiential component of walking the ground, observations and involvement in some activities
Day 4	Discussion with department Head and staff in the planned area of attachment	Introduction to the department staff during the attachment
Day 5	Reflection on the week	Teachers give feedback on their views and observations of what they have experienced
Weeks 2 - 3	Attachment to the department	The attachment allows teachers to also participate in any other activities that may be taking place at Science Centre. For example, staff sharing sessions, public talks, etc.
Week 4	Wrap-up, submission of report/reflections/project follow-up in school	Finalise report, share prototype/project, any HR matters (return staff passes, etc)

Types of TWAs at Science Centre

Attachment	Audience	Area of programming	Outcome
Science Catalyst @Education Programmes	Primary and Secondary	Topics in STELLAR, general science topics, DNA, Chemistry, Food Science, Physics, Gaming, Math, Teacher PD	Prototype activity e.g. development of pre- and post-programme activities and alignment with school curricula.
EduMentor @CRADLΣ Lab	Secondary and higher levels	Physics and engineering experimentation and project mentorship Signature programme - R&D Experience Programme, Teacher PD (Picture: computerised VIS fluorescence/absorbance photospectrometer designed & built by students at CRADLΣ)	Observe and assist with mentoring of students in research projects; available 1st half of June (Student Mentorship Programme) and mid-November to mid-December (R&D Experience Programme). or Mini R&D project (specific topics to be discussed and arranged in advance). A common theme is the design and prototyping of low-cost scientific apparatus and experiments for educational use (involving practical and trans-subject application of STEM disciplines). Non-prototyping investigative projects making use of available facilities are also possible.
STEM Resource	Primary	Development of STEM resources	Propose a STEM resource
Developer @STEM Inc	and Secondary	such as exemplar modules, online courses, educational kits, social media content to engage youth, etc	to be developed alongside Science Centre staff.

		Teachers receiving training from STEM Educators in Science Centre Sample project prototype: Impeller and Gear pumps	Teachers are expected to pilot the STEM resource in their schools. The resource may then be shared with the larger education fraternity.
Imaginator @KidsSTOP	Preschool	Activities and workshops for children 2 - 8 years old. Outreach programmes, gallery trails, KidsSTOP Academy on-ground activities and Teacher PD	Prototype activity
Science Catalyst @Gallery Programmes	Primary, Secondary and Public	Tinkering activities; activities that promote Scientific Thinking method and inquiry based learning; gallery Interaction & guided tours; Science Shows (for schools and public)	- To develop activities that complements the school curriculum - To prototype activities for Teachers' Professional Development - To prototype suitable activities for inquiry- based gallery interaction - To curate teachers' resources for exhibitions/ shows

TWAs suitable for non-Science teachers

Attachment	Audience	Area of programming	Outcome
Transmedia Writer @Editorial and Transmedia	All	Conduct research, edit and create engaging content on scientific topics that are used for exhibition, publications (print/on-line), videos, science shows, and transmedia communication.	Translating initiatives into compelling story ideas with useful messages, elevating awareness of Science Centre's impact among strategically important audiences
Digital Ninja @Digital Learning Instructional Design	All	Sourcing for adventurous ways to excite and engage learners across digital learning, enabling technologies, social media, gamification, mobile, VR, 3D and other modes of learning.	Adapt latest and most appropriate instructional design and learning technology techniques, theories and methodologies to create unique and engaging content.
Science Explorer @Outdoor Learning, Fieldwork and Investigation	All	Bring elements of outdoor adventure, exhibitions and fieldwork into learning for kinesthetic learners	Working closely with the education programmes team and exhibitions team to curate learning experiences outdoor and within exhibition spaces
Events Catalyst @Events and Engagement	Primary, Secondary and Public	STEM promotion and engagement events such as Youth Science Ambassador programme and Untame festival and also working with underserved communities.	Involved in student mentoring, project management, and creation of accompanying resources
Imagineer @Exhibitions	Primary, Secondary and Public	Prototyping and development of exhibits, including travelling exhibitions for schools.	 Involved in exhibit prototyping development. Application of problem based solving scenarios to exhibits Creation of accompanying resources Evaluating and measuring impact of the exhibitions

Additional Notes

Teachers may choose their area of attachment from the above list to make their experience more meaningful. If requested, teachers may be rotated to work with various project officers in the course of their attachment, so that they will gain greater exposure.

The attachment is not only intended as a learning experience for teachers. It is also intended to help the Science Centre better understand teachers' needs and perspectives, and thereby improve its services. Thus, teachers are expected to share their experience and feedback in a brief report at the end of their attachment.

Teachers who are interested to apply should have a passion for informal learning but need not have a Science background as long as they are able to contribute to the Centre. We also invite teachers to propose new areas for attachment other than those listed.

Thank you. We look forward to you joining us at Science Centre Singapore!