# Resilience Fund Application Form

This form provides the minimum information for the application. A detailed project plan should be developed to inform this application and may be attached.

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| Project title | East Coast LAB - Earthquake Education kits |
| Date of application | 26/01/2022 |
| **Details on application** | |
| Applicant<br>*[CDEM Group must endorse/sponsor all applications]* | Hawke's Bay CDEM Group<br>as administrating authority of East Coast LAB (Life at the Boundary) |
| Sponsoring CDEM Group | Bay of Plenty, Gisborne, Wellington, Whanganui-Manawatu CDEM groups |
| *Other local authorities, Groups or organisations supporting this proposal* | House of Science |
| **Project description** | |
| Executive summary *[200 words maximum]* | |

Many schools along the East Coast of New Zealand face a significant risk from earthquake and tsunami, yet don't have easy access to good contemporary science resources to build awareness of risk and develop resilience.

House of Science is a primary and intermediate school science resource provider, their science lessons aim to create critical thinkers with robust science literacy. This project seeks to partner with House of Science to create an Earthquake Science Kit, which reinforces and incorporates hazard and preparedness messaging. This resource would then be distributed to East Coast communities and be available to schools in these areas.

This project also aligns with both the National Disaster Resilience Strategy (2019) and the NEMA Science Strategy (2020), by building risk awareness and resilience through science communication. House of Science is committed to connecting their resources with Kura Kaupapa Māori and whānau Māori and translate all elements of the kits into Te Reo Māori.

Education about earthquakes and their secondary hazards is protective for ākonga and kura as a whole. In Japan in 2011, child mortality was linked to the preparedness of their school (Nakahara & Ichikawa, 2013).

The Education Review Office recently showed that only 20% of year 8 ākonga in Aotearoa are achieving at the expected level for the science curriculum (ERO, 2021). This is an opportunity for East Coast LAB and NEMA to support science literacy and emergency preparedness, through House of Science and this Earthquake Science Kit.

Nakahara, S, Ichikawa, M. Mortality in the 2011 Tsunami in Japan. Journal of Epidemiology. 2013; 23 (1): 70-73. https://doi.org/10.2188/jea.JE20120114

Education Review Office (ERO). Science in primary schools: a guide for leaders. 2021.

Challenge/opportunity *[200 words maximum]*

CDEM group Community Engagement staff are stretched across all kura in their areas, limiting the amount of time they can spend supporting each. This resource will help to build the capacity of kaiako, so they can continue to build the resilience of their own ākonga and kura, thus freeing up valuable staff time to focus on other initiatives. This project has been supported by five East Coast groups.

This presents multiple opportunities:

- Support the work of CDEM Community Engagement staff.
- Connect risk reduction messaging with kura across the East Coast, especially kura kaupapa Māori.
- Builds the capacity of kaiako to continue building the resilience of their kura and ākonga.
- Recognise the value of mātauranga Māori in science and hazard education.
- Support the improvement of science and risk literacy amongst kura and primary and intermediate ākonga.

Alignment with priorities and objectives of the National Disaster Resilience Strategy (NDRS) *[200 words maximum]*

The outcomes of this project directly align to the National Disaster Resilience Strategy (2019):

- Objective 3 – Build risk awareness, risk literacy and risk management capability, including the ability to assess risk.
  Understanding the science, the 'why' behind risks, makes individuals more risk aware, literate, and more able to navigate complex decisions during an emergency.
- Objective 13 – Enabling and empowering individuals and households to build their resilience, with particular attention to groups disproportionately affected.
  House of Science have found that their resources impact the whole whānau when tamariki take their learnings home.
  House of Science have over 500 member schools and over 50 of them are Kura Kaupapa Māori, and all resources are fully translated into Te Reo Māori, demonstrating their commitment to increasing access to science education and reducing inequities for Māori.
- Objective 15 – Take a whole region approach to resilience.
  One science kit at House of Science can reach the whole region, by providing one in each region along the east coast of the North Island, the entire coast benefits.

Alignment with Principles and Allocation Preferences *[200 words maximum]*

- East Coast LAB will provide guidance on the content of the resource to ensure that hazard messaging is woven into the lessons. NEMA will have the opportunity to be involved if they wish.
- House of Science continues to prioritise equity for Māori through fully translated resources and engagement with Kura Kaupapa Māori.
- This new Earthquake kit is a continuation of existing work by House of Science, which includes geology (being redeveloped into the new Earthquake and Volcano kits) and Volcano kits which have been sponsored by University of Canterbury, East Coast LAB and GNS Science.

This project also aligns with the NEMA Science Strategy (2020):

- Outcome 1, goal 2 – raising awareness and improving understanding and promoting science communication.
- Outcome 1, goal 4 – Lifting the quality of public discussion on issues of relevance to the activities of NEMA, and provide accessible, valid, meaningful, public information.
- Outcome 2, goal 1 – Work with partners to help grow Māori capacity to engage in disaster science.
- Outcome 2, goal 2 – Include mātauranga Māori as well as ancestral, and local knowledges and practices.
- Outcome 2, goal 4 – Promote inclusiveness, interdisciplinary and intergenerational participatory approaches across the 4R's.

Application of outcomes/benefits to sector *[200 words maximum]*

Benefits to the sector include:

- Supporting the work of CDEM Community Engagement staff.
- Normalising culturally responsive, Te Reo Māori translated, hazard science education resources.
- Incorporate the new NEMA Science Strategy into a Resilience Fund project.
- Builds the capacity of kaiako to continue building the resilience of their kura and ākonga.
- Recognise the value of mātauranga Māori in science and hazard education.

Ongoing costs (post-project) and how it will be funded *[200 words maximum]*

Beyond this project there are no ongoing costs. Once a kit has been created, it is up to each branch to find funding to purchase a kit and maintain it.

| Project design | | |
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| Project manager | Georgia McCombe (Project Leader ECLAB) | |
| Other project members | Jae Sutherland, Lily Foulds | |
| External providers/contractors | Sandra Kirikiri, Jane Hoggard | |
| NEMA resource (if needed) | | |
| **Deliverables** *[Note: payments will be made after successful completion of milestones identified]* | | |
| Key milestones | Date for completion | Cost (invoice amount) |
| Kit scoping and resources collated and tested in schools | 30 April | $13,000 |
| Translation | 30 May | $5,000 |
| Four additional kits compiled | 30 June | $10,000 |

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| Commitment to timeframes | Timeframes will be well communicated and capacity of operational staff will be assessed to confirm deadlines can be met. | | |
| Supply chain issues threaten timelines | House of Science staff have begun investigating resource options and will endeavour to find locally made products that will not be disrupted by supply chain issues. | | |
| COVID-19 resurgence | Work with House of Science staff virtually. Confirm their COVID-19 contingency plan. | | |
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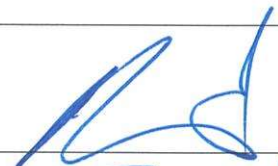
| **Funding request and use** | | | |
| CDEM Resilience Fund contribution | $28,000 | | |
| Local authority / organisation contribution | $0 | | |
| Other sources of funding or support | $0 | | |
| Budget *[please supply spreadsheet]* | East Coast LAB Project leader time $3000<br>Creating lessons and scoping resources $7500<br>Purchasing resources for first prototype kit $2500<br>Translation into Te Reo Māori $5000<br>Compiling four additional kits $10000 | | |
| Applies if application exceeds $100,000 over the life of the project | Are you prepared to attend an interview in support of this application (if needed)? | Yes ☐ | No ☐ |
| **Application confirmation** | | | |
| Is this application from an individual or other organisation | | Yes ☐ | No ☐ |
| Does the CDEM Group support this application? *[sign off below confirms support]* | | Yes ☐ | No ☐ |
| Approval of Chief Executive [Chief Executive or Head of the organisation receiving the funding] |  <br>Name: Ian Macdonald. | | |
| Approval of CEG Chair |  <br>Name: Monique Davidson | | |

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| | Name: |
| All communications regarding the application, including approval decisions will be addressed to the Chief Executive and CEG Chair | |
| CDEM Group comment | |
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Note: Only complete forms will be considered for assessment. All completed forms and supporting documents must be emailed to NEMA at resilience.fund@nema.govt.nz

| NEMA Assessment [internal use only] | | |
|---|---|---|
| **Principles** | **Yes** | **No** |
| Local / regional focus | ☐ | ☐ |
| Values the role of Māori in the Emergency Management System | ☐ | ☐ |
| NEMA involvement required | ☐ | ☐ |
| **Allocation Preferences** | | |
| Alignment with NDRS | ☐ | ☐ |
| Achieves equity of outcomes for Māori communities, marae, hapū, iwi and Māori organisations | ☐ | ☐ |
| Outcome focused | ☐ | ☐ |
| Applicable in other regions / CDEM Groups | ☐ | ☐ |
| Supports national consistency | ☐ | ☐ |
| Wider funding / resource commitment | ☐ | ☐ |
| Build on existing work | ☐ | ☐ |
| Operational expenditure (Opex) | ☐ | ☐ |
| Capital expenditure (Capex) | ☐ | ☐ |
| Other | | |
| Application from individuals or other organisations endorsed/sponsored by CDEM Group | | |
| NEMA Subject Matter Expert Comment | Supported ☐ | Not supported ☐ |

| NEMA Regional Emergency Management Advisor Comment | Supported ☐ | Not supported ☐ |
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| NEMA Review Panel Comment | Supported ☐ | Not supported ☐ |
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| NEMA Director Decision Sign-off | Approved ☐ | Declined ☐ |
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**Director of Civil Defence Emergency Management**