# A BILL FOR AN ACT

RELATING TO TECHNOLOGY DEVELOPMENT.

**BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:**

1    SECTION 1.  The confluence of the Internet, the world wide

2  web, mobile device development, and other technological advances

3  have helped governments to enhance services without expending

4  significant government funds.  However, government entities

5  often do not have the resources or organizational culture to

6  develop innovative solutions.  To address this shortfall,

7  communities and government entities have increasingly

8  collaborated to present events, typically lasting as short as a

9  weekend to as long as a month, where software developers compete

10  for prizes by creating proofs of concept to address a specified

11  challenge.  These events, known as hackathons, often lead to the

12  discovery of new ways to leverage existing government platforms

13  into expanded services for the public.

14    In 2016, Governor David Ige and the office of enterprise

15  technology services held the inaugural Hawaii annual code

16  challenge (HACC) to engage the local technology community to

17  help modernize state government.  The challenge gathered local

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1  talent to develop modern tools and software applications to

2  provide enhanced government services to the public.  The event

3  also provided opportunities for students to network and present

4  their skills to the public and private-sector professional

5  communities, while allowing government departments to showcase

6  their open datasets, present their current challenges, and

7  request potential solutions.  Through this collaborative

8  environment, members of the public interacted directly with

9  government resources and subject matter experts to help create

10  innovative solutions and drive civic engagement.

11       The inaugural HACC in 2016 drew more than two hundred fifty

12  participants who developed several highly regarded proofs of

13  concept.  State departments and other organizations made

14  challenge pitches to the attendees, who formed teams to pitch

15  potential solutions.  For example, to solve the problem of

16  managing visitors to correctional facilities, teams created a

17  visitation software application for the department of public

18  safety to use at the Oahu community correctional facility.

19  Similarly, in response to a request from the Institute for Human

20  Services, participants created a software application to aid

21  social workers in collecting point-in-time information at

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1  homeless encampments.  The department of agriculture also

2  benefitted from a team's development of a website to gather data

3  on locally grown produce, allowing data to be crowdsourced.

4     At the second annual HACC in 2017, more than three hundred

5  community participants formed twenty teams to create even more

6  promising software applications.  One team created an online

7  tool to help the office of elections schedule volunteers during

8  the busy election season.  Another team created a software

9  application to crowdsource the mapping of buildings to assist

10  the University of Hawaii to geotag campus buildings.  Finally, a

11  team created an Alexa skill to allow individuals to interface

12  with the Hawaii Revised Statutes with verbal commands.

13     The purpose of this Act is to appropriate funds for grants

14  to software application challenge participants so that the

15  proofs of concept created during the challenges can be developed

16  into prototypes.

17     SECTION 2.   (a)   The Hawaii technology development

18  corporation shall:

19     (1)   Use the funds appropriated by this Act, along with any

20        matching funds, to award grants to help convert proofs

21        of concept developed in Hawaii during software

1                application challenges into prototypes suitable for

2                local and state government use;

3      (2)   Seek donations from corporate, philanthropic, and

4                other nongovernment sources; provided that moneys from

5                donations shall account for not less than fifty per

6                cent of moneys expended on a project-by-project basis;

7      (3)   Require that all software applications that are the

8                subject of any grant awarded be made open source so

9                that anyone may use those applications free of charge

10               based upon open source licensing;

11      (4)   Require that any participant in a software application

12               challenge is eligible to apply for a grant;

13      (5)   Appoint a review committee to review grant

14               applications pursuant to subsection (b) and award

15               grants subject to available funding; and

16      (6)   Submit a report to the legislature no later than

17               twenty days prior to the convening of the 2019 regular

18               session on the:

19               (A)   Number and dollar amounts of grants awarded; and

20               (B)   Progress of any software applications developed.

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1         (b)   A participant applying for a grant under this Act

2 shall submit a grant application on a form prescribed by the

3 Hawaii technology development corporation.  The grant

4 application shall:

5         (1)   Require an overview of the software application and

6               how continued development of that application will

7               impact the State and the pitching agency's ability to

8               service the community;

9         (2)   Require the applicant to present an adoption plan for

10              the software application, including critical success

11              factors and how that application will sustain itself

12              over time;

13         (3)   Provide major budget components for the software

14              application's development; and

15         (4)   State the outcomes the applicant expects to achieve if

16              awarded a grant.

17         (c)   The Hawaii technology development corporation may

18 expend some of the funds appropriated by this Act to support

19 application challenge events, manage prototype implementation

20 process, and execute an adoption plan for the project, including

21 marketing, outreach, and communications.

1    (d)   No funds appropriated by this Act may be awarded as a

2    prize for any software application challenge.

3    (e)   For the purposes of this Act:

4    "Open source" means a software application whose source

5    code is available to the general public, under the terms of a

6    software license, for use or modification from its original

7    design.

8    "Pitching agency" means a state or county agency that

9    challenges software application challenge participants to create

10   software applications.

11   "Proof of concept" means a software application that serves

12   as a realization of a certain method or idea in order to

13   demonstrate its feasibility or to verify that the method or idea

14   has practical potential.

15   "Prototype" means a software application that possesses

16   enough function that it may be tested or utilized by the

17   pitching agency.

18   "Software application" means the applications or apps that

19   result from the software application challenges, including but

20   not limited to the broad categories of web apps, mobile apps,

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1 computing devices, sensors, augmented reality, and virtual

2 reality.

3     "Software application challenge" generally refers to events

4 that bring teams together to collaborate and innovate solutions

5 for a given theme or problem set; examples of events include the

6 Hawaii Annual Code Challenge, AT&T Hackathon, and Reboot the

7 Commute.

8     SECTION 3.  There is appropriated out of the general

9 revenues of the State of Hawaii the sum of $       or so much

10 thereof as may be necessary for fiscal year 2018-2019 for the

11 purposes set forth in section 2 of this Act.

12     The sum appropriated shall be expended by the Hawaii

13 technology development corporation for the purposes of this Act.

14     SECTION 4.  This Act shall take effect on July 1, 2112.

**Report Title:**
Technology; Software Application Challenges; Grants; Appropriation

**Description:**
Appropriates funds for grants to participants in software application challenges so that the proofs of concept created during the challenges can be developed into prototypes suitable for local and state government. Appropriates funds. Requires matching funds. (HB2080 HD1)

*The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.*

HB2080 HD1 HMS 2018-1611