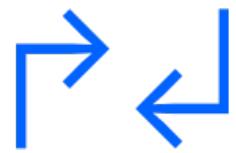


Code Response



**CALL
FOR
CODE®**

**COMMIT TO THE CAUSE.
PUSH FOR CHANGE.
ANSWER THE CALL.**

developer.ibm.com/callforcode

IBM

Call for Code Founding Partner

CALL FOR CODE DAY – Workshop Agenda

- Disasters Prone to happen
- Coding for a cause - CALL FOR CODE, solving real world challenges through technology
- Call for code Registration
- Technology Outlook – Cloud , AI and IoT Services
- Solution to Problems
 - Application architecture flow based on IoT, Weather, Blockchain , AI
- Hands On
- Ideation – Team to present
- Judging
- Top 2 ideas

Natural disasters are among the world's greatest challenges...

A photograph showing a woman walking away from the camera through a street completely covered in debris and rubble. In the background, more damaged buildings and hills are visible under a clear sky.

800,000+

worldwide deaths attributed to earthquakes since 2010

25%

coastline areas that met or surpassed record number of flood days

800+

confirmed tornadoes touched down in 2018

17 million

acres lost to wildfire in the United States in the last 2 years

22

named storms in the Eastern Pacific region this year – a record

18

volcanos considered a “very high threat” in the U.S. alone

Code ↗ ↘ Response

Code and Response is an IBM initiative which provides a platform to create and deploy open source technologies to tackle some of the world's biggest challenges.

- **Coding challenges:** Call for Code, Clinton Global Initiative University-affiliated codeathons, IBM BlueHacks and more.
- **Solution deployment:** Starting with the testing and implementation of Call for Code winner, Project Owl.
- **Volunteer programs:** Working with volunteers to help in disaster relief efforts with the American Red Cross and other partners.



[Call for Code](#) unites developers and data scientists around the world to create sustainable, scalable, and life-saving open source technologies via the power of Cloud, AI, blockchain and IoT technologies.



[Clinton Global Initiative University](#) in partnership with IBM commits to inspiring university students to harness modern, emerging and open source technologies to develop solutions for disaster response and resilience challenges.

Learn more about Code and Response: developer.ibm.com/code-and-response

RESPONDING TO THE CALL

Call for Code Day



Submit Projects

Today !

Full day hackathon with IBM Developer Advocates. Teams to work on projects and prepare a project overview for judging.

Competition deadline 7/29

Take feedback from peers, judges and IBM SME. Continue to improve projects for submission to the challenge.



CALL FOR CODE® 2018

1 Grand Prize Winner Project Owl

156 Nations contributed

100k+ Developers participated

2,500+ Applications created

400+ Call for Code days across the world

40+ Celebrity supporters

The prize structure ***inspired*** and ***nurtured*** the winning idea with 5 awards to ***attract*** and ***implement sustainable solutions***

Eminent Call for Code award

Large cash prize

Venture capital investment introduction

Open source project support

On-the-ground pilot deployment support



PROJECT OWL

Keeping first responders and victims connected after a natural disaster

IoT approach integrates IBM Watson Studio, Watson Cloud APIs, and Weather Company APIs on the IBM Cloud

Call for Code 2019 Global Challenge Overview



What is it?

- **Creating practical, effective, and high-quality applications** using technology that has an immediate and **lasting impact** on humanitarian issues.
- Build solutions that **significantly improve preparedness** for natural disasters and accelerate relief when they hit.
- This year's challenge also introduces an **emphasis on individual health** and **community well-being**.
- Top prize of **\$200k**, support from **The Linux Foundation**, Code and Response™ **solution implementation**, and more!
- Submissions open until **July 29th**, winners announced in **October**
- Call for Code days and **Hackathon events** throughout the submission dates



CALL
FOR
CODE®

Commit to the Cause, Push for Change

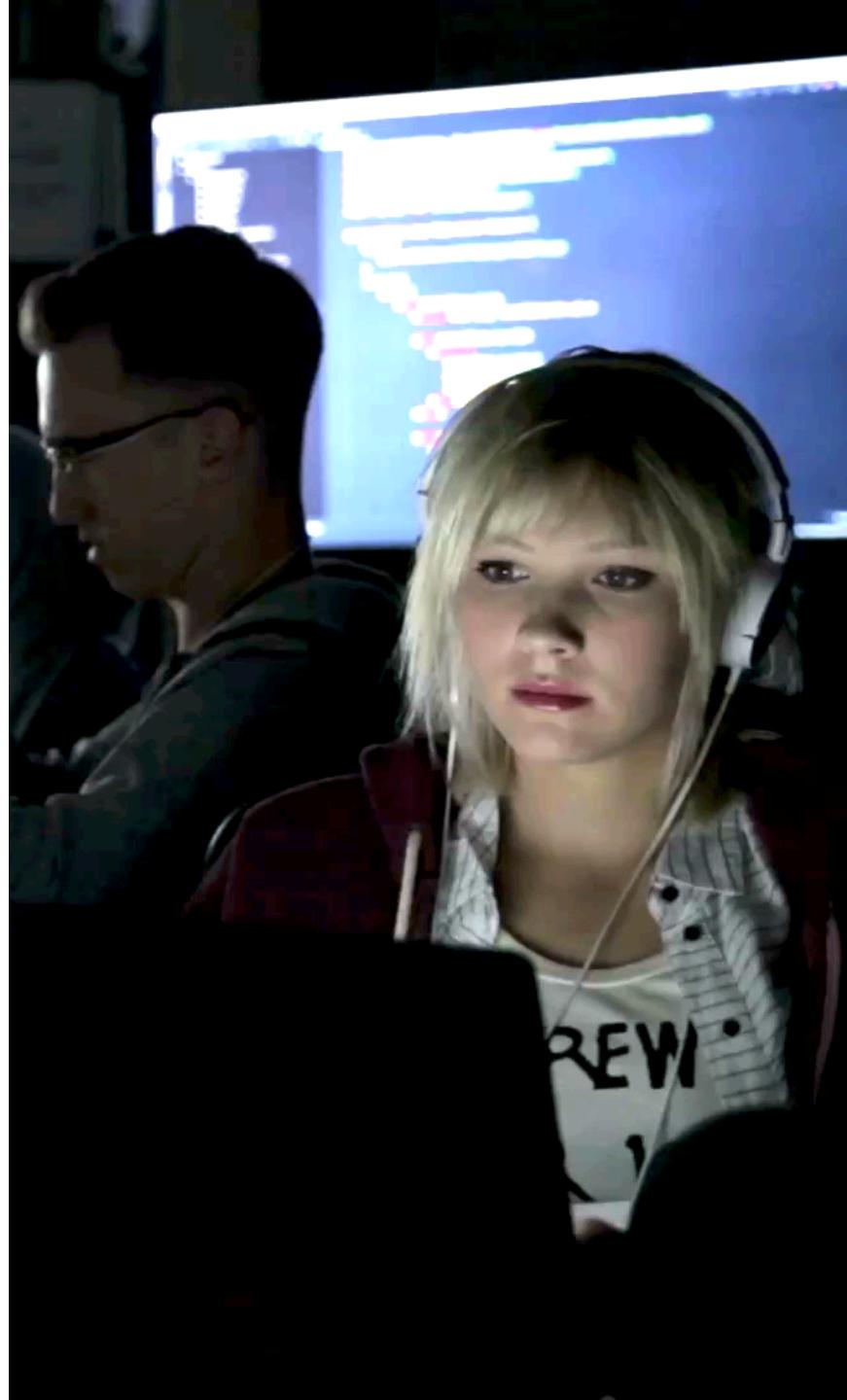
Build a cloud, data, analytics, AI, IoT, or blockchain solution to improve natural disaster preparedness, response, or recovery focused on the health and well-being of individuals and communities.

Potential problem areas

- Reduce vulnerability by managing disaster risk over the long run
- Forecast impending threats to improve preparation in the short term
- Respond to medical needs during the disaster
- Improve the resiliency of communities to restore health services after

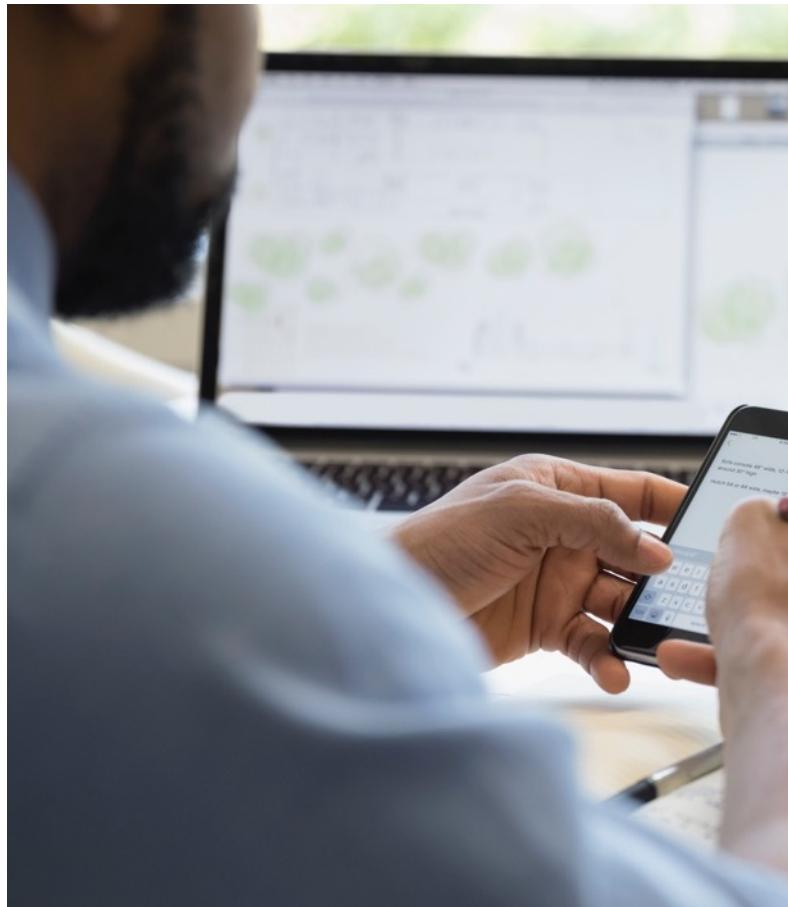
Potential solutions

- Alert pharmacies to increase stocks of antibiotics, insulin, water, and vaccines based on predicted weather-related disruptions.
- Use analytics to predict the impact of disasters and educate communities on how to prepare for impending threats.
- Use visual recognition to assess the impact of a disaster and accelerate response, reducing time to build back better.
- Improve the efficiency, accountability, and resiliency of supply chains through blockchain technology.



Call for Code 2019 Overall Schedule

Call for Code challenge issued	Call for Code challenge opens	MOU Signed	Submission deadline	Judging begins	Winners are announced
February 12	March 25	April 15	July 29	August	October



KEY RULES

ACCEPT THE PARTICIPATION AGREEMENT

All team members must have accepted the [2019 Participation Agreement](#) at the time they submit to be eligible.

COMPETE ALONE OR AS PART OF A TEAM

Teams of up to five (5) participants, each at least 18 years old, are allowed.

A participant may not be part of multiple teams.

USE THE IBM CLOUD

Submissions must use one or more [IBM Cloud services](#) or [IBM Systems](#). Use of sponsor or affiliate APIs and open source libraries is also encouraged.

Applications must be new and built for the 2019 competition, but they may use code that was open sourced and publicly available to all other participants as of February 12, 2019. Winning teams will be subject to a code review after submissions close.



A photograph showing a person's hands holding a smartphone. The phone's screen is visible, displaying some text and a virtual keyboard. In the background, there is a large window with a view of greenery outside, and a portion of a computer monitor or laptop screen can be seen. The overall scene suggests someone is working or reviewing information on their mobile device.

JUDGING

5 POINTS FOR EACH (20 TOTAL)

COMPLETENESS AND TRANSFERABILITY

How fully has the idea been implemented? Can it achieve an impact in the field? Can it be transferred elsewhere?

EFFECTIVENESS AND EFFICIENCY

Does the solution address a high priority area? Does it achieve its goal effectively and efficiently? Can it scale?

DESIGN AND USABILITY

How good is the design, user experience, and ease of use of the solution? How quickly can it be put to use?

CREATIVITY AND INNOVATION

How unique was the approach to solving a long-standing or previously intractable problem?

CALL FOR CODE® 2019

Build and submit your solution for natural disaster preparation, response, and recovery

<https://developer.ibm.com/callforcode/>

STEP 1:

JOIN THE CALL FOR CODE 2019 CHALLENGE COMMUNITY

LEARN ABOUT THE COMPETITION SCOPE, PRIZES, RULES, AND SCHEDULE

STEP 2:

EXPLORE RESOURCES AND BUILD WITH CODE PATTERNS

USE CODE PATTERNS TAILORED TO YOUR INDUSTRY AND DIGITAL KITS TO RUN AN EVENT

STEP 3:

LEARN FROM EXPERTS AND FIND TEAMMATES

INTRODUCE YOURSELF, MEET ADVOCATES, BRAINSTORM IDEAS, FIND A TEAM, HEAR ABOUT UPDATES

STEP 4:

SUBMIT (AND ITERATE ON) YOUR 2019 CALL FOR CODE SOLUTION

DESCRIBE YOUR SOLUTION, LINK TO YOUR CODE AND DEMO, ACCEPT THE PARTICIPATION AGREEMENT

STEP 1:

**JOIN THE CALL FOR CODE
2019 CHALLENGE
COMMUNITY**

<https://callforcode.org>

**LEARN ABOUT THE
COMPETITION SCOPE,
PRIZES, RULES, AND
SCHEDULE**

The screenshot shows the homepage of the Call for Code 2019 Global Challenge website. At the top, there's a navigation bar with links for 'Accept', 'Amplify', 'Ecosystem', 'News', 'FAQ', and '2018'. On the far right, there's a 'Tweet Support' button. The main banner features a blurred background image of people working together. Overlaid on the banner is the text 'ACCEPT THE CALL FOR CODE 2019' and 'GLOBAL CHALLENGE' in large, bold, white letters. Below that, it says 'BUILD THE BEST TECHNOLOGY SOLUTION TO IMPROVE NATURAL DISASTER PREPAREDNESS, RESPONSE, AND RECOVERY'. A smaller text below the competition title states 'Competition ends on July 29, 2019'. In the lower-left area, there's a large call-to-action button with the text 'Accept the Challenge!' in white. To the right of this button, there's a paragraph about the initiative and a blue button labeled 'Join the 2019 Challenge Community'. At the bottom, there's a footer note about the challenge being powered by IBM.

← → C https://callforcode.org/challenge/ ☆ ○ M WJ M

CALL FOR CODE Accept Amplify Ecosystem News FAQ 2018 Tweet Support

ACCEPT THE CALL FOR CODE 2019

GLOBAL CHALLENGE

BUILD THE BEST TECHNOLOGY SOLUTION TO IMPROVE NATURAL DISASTER PREPAREDNESS, RESPONSE, AND RECOVERY

Competition ends on July 29, 2019

Accept the Challenge!

The Call for Code Global Initiative calls on you to create practical, effective, and high-quality applications based on cloud, data, and artificial intelligence that can have an immediate and lasting impact on humanitarian issues.

Join the 2019 Challenge Community

The Challenge Community is powered by IBM, the Call for Code Founding Partner. By joining the Community you will sign up for an IBM Cloud account that grants access to cloud, data, artificial

Building on the success of the 2018 competition, the Call for Code 2019

STEP 2:

EXPLORE RESOURCES AND BUILD WITH CODE PATTERNS

[https://developer.ibm.com/callforcode/
#tech-areas](https://developer.ibm.com/callforcode/#tech-areas)

USE CODE PATTERNS TAILORED TO YOUR INDUSTRY AND DIGITAL KITS TO RUN AN EVENT

 <p>Data Science Understand, analyze, and predict health and nutrition needs to improve services with data science.</p>	 <p>Artificial Intelligence Use AI and bots to improve real-time communications with natural language processing.</p>	 <p>Blockchain Build secure, resilient, traceable, and transparent supply networks with blockchain.</p>
 <p>Traffic & Weather Improve logistics based on traffic and weather activity to reduce the number of people affected.</p>	 <p>Internet of Things Collect and analyze device sensor data to take corrective or preventative action automatically.</p>	 <p>Machine Learning Use machine learning, deep learning, and visual recognition to improve critical processes.</p>

STEP 3:

**LEARN FROM EXPERTS
AND FIND TEAMMATES**

ENGAGE THE COMMUNITY
<https://ibmcoders.influitive.com>

**INTRODUCE YOURSELF,
MEET ADVOCATES,
BRAINSTORM IDEAS, FIND
A TEAM, HEAR ABOUT
UPDATES**

https://ibmcoders.influitive.com/challenges

Challenges Activity Feed Discussions Referrals

IBMCODER PROGRAM

[Back to IBM CODER](#) Available Challenges

Call for Code - Technologies

Solving the most difficult problems in the world requires great minds and great technology. Take on the 2019 Call for Code challenge and learn how to use AI, blockchain, IoT, machine learning, data science, and traffic/weather technologies to develop an award-winning [see more...](#)

Artificial Intelligence

Call for Code - Artificial Intelligence^{**}

Introduction: Learn more about AI with D...

Artificial intelligence has the potential to change and enhance a variety of serv...

50

Blockchain

Call for Code - Blockchain

Introduction: Learn about Blockchain wit...

When you think of potentially ground-breaking technologies, blockchain is often mention...

50

Data Science

Call for Code - Data Science

Introduction: Learn about Data Science ...

Data science and big data analytics are crucial when it comes to developing insig...

25

Internet of Things

Machine Learning

Traffic and Weather

STEP 4:

**SUBMIT YOUR APPLICATION
TO ENTER THE COMPETITION**

<https://callforcode.org/submit/>

**DEFINE YOUR TEAM NAME
AND TEAM MEMBERS.**

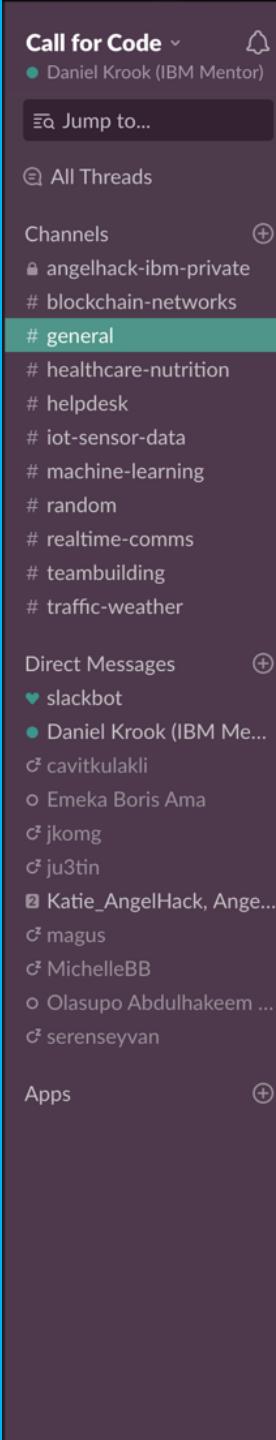
**DESCRIBE YOUR SOLUTION,
UPLOAD YOUR DEMO, AND
LINK TO YOUR REPO.**

The screenshot shows a web browser window with the URL <https://callforcode.org/submit/> in the address bar. The page has a dark background featuring a blurred image of several people. At the top left is the Call for Code logo, which is a circular pattern of dots forming a stylized letter 'C'. To the right of the logo are the words "CALL FOR CODE" in blue capital letters. Further to the right are navigation links: "Accept", "Amplify", "Ecosystem", "News", "FAQ", and "2018". On the far right, there is a "Tweet Support" button with a Twitter icon. The main title "CALL FOR CODE 2019 GLOBAL CHALLENGE" is centered above a large, bold, white text "SUBMIT YOUR SOLUTION". Below this, a message reads: "Thank you for accepting the Call for Code 2019 Global Challenge! You can enter your solution into the competition here. Only one team member needs to submit the solution, but each additional team member must also accept the 2019 Participation Agreement." Two buttons are visible: a blue button on the left that says "Submit your solution as the team lead" and a white button with a black border on the right that says "Accept the Participation Agreement as a team member".

ENGAGE THE COMMUNITY

After registration, look for an email with a subject of ***Global Call for Code Submission Details and more.***

Join CFC Slack =
<http://callforcode.org/slack>



#general

☆ | 685 | 8 | General discussion about the Call for Code Challenge. You can sign up for an IBM Cloud account at <http://bit.ly/ibm-acct> and get s Yesterday

DESIA YAMESE 5:16 PM
Welcome, I am open and highly interested in teaming up

DESIA YAMESE 5:23 PM
I am an experienced in wholesale Investment properties, abstractor, and gather chain of titles for proof of subsurface owner

DESIA YAMESE 5:36 PM
I believe that my skill of creating documents with image registry for the children being separated from their families will be h Today

Emeka Boris Ama 1:38 PM
Hello Folks I am lost can some help me
1 reply Today at 1:59 PM

Tianwei 6:07 PM
Hi, this is Tian from Toronto. I'm a web developer, working on both front end and back end. Feel free to contact me if you ne

Daniel Krook (IBM Mentor) 9:54 PM
Hello all, tomorrow we're kicking off 5 straight days of Tech Talks on the Call for Code Challenge and how to get started with weather, IoT, bots, AI, and data science.

Daniel Krook (IBM Mentor) 9:54 PM
uploaded this image: [cfc-live-tech-talks.png](#)

Daniel Krook (IBM Mentor) 9:55 PM
We'll have one each day at 11am ET (recorded).
You can find the YouTube stream by following the link here: <https://www.ibm.com/developerworks/>

IBM developerWorks : IBM's resource for developers and IT professionals
IBM's official developer program offers tutorials and training, trials and downloads, and access to expert answers on IBM and open standards technologies.

Mon, July 9, 11am-11:30 ET
How to solve the world's largest natural disaster challenges with code - [@Daniel Krook \(IBM Mentor\)](#) (edited)

Tue, July 10, 11am-11:30 ET
Improve logistics based on traffic and weather activity to reduce the number of people affected - [@Raj \(IBM Mentor Logistic](#)

Wed, July 11, 11am-11:30 ET
Collect and analyze device sensor data to take corrective or preventative action automatically - [@John Walicki](#) (edited)

Explore types of disasters and how we can lessen their effects through technology



Earthquakes and Tsunamis



Hurricanes and Typhoons



Wildfires



Volcanoes



Floods and Storm Surges



Extreme Weather



<https://developer.ibm.com/code-and-response/disasters/>

Solution Starters



Building Back Better to Reduce the Impact of Future Disasters

Use technology to rebuild communities, buildings, and infrastructure after a disaster strikes.



Improving Flood and Drought Prevention and Response

Find ways to help communities prepare for, respond to, and recover from droughts and floods.



Humanitarian Protection in Times of Disaster

Ensure that all – including society's most vulnerable – can access resources following a disaster.



Accountability and Centrality of Protection for Affected Populations

Prevent humanitarian crises following a disaster through enablement and training.

<https://developer.ibm.com/callforcode/starters/>

Stay Connected and continue coding !

IBM CODER

IBM Coder Platform
<https://ibmcoders.influitive.com/>



Code & instructions available here
<https://github.com/IBMDelConnect>



Check out the code patterns
<https://developer.ibm.com/patterns/>



Join our Slack team and stay in touch with the experts
<https://ibmdevconnect.slack.com>
Send in your request to -
<http://ibm.biz/slackrequest>



Call for Code 2019
<https://callforcode.org/>



Mumbai :

<https://www.meetup.com/Cloud-Mumbai-Meetup/>

Hyderabad: <https://www.meetup.com/Hyderabad-Cognitive-with-Cloud>

Bangalore :

<https://www.meetup.com/IBMDelConnect-Bangalore>

Chennai:

<https://www.meetup.com/Chennai-CodeWeekend-Meetup/>

Delhi NCR: <https://www.meetup.com/IBM-cloud-developers-ecosystem-Delhi-NCR/>