



Museum of Science

PILOT Community Benefits Report April 1, 2021

The Museum of Science, Boston exists to inspire a lifelong love of science in everyone. Nestled at the end of the Charles River, situated with one half in Boston and the other in Cambridge, the Museum is at the center of the world's most science-rich community. Through exhibits, curricula, programs, and events, both live and virtual, reaching audiences both locally and around the world, we make science and scientific thinking accessible, engaging, and relevant. We collaborate across disciplines to help people everywhere see and appreciate the science in everything. Our vision is a world in which science belongs to each of us for the good of all of us.

One of the world's largest science centers and New England's most highly attended cultural institution, the Museum introduces over 1.4 million visitors a year to science, technology, engineering, and mathematics (STEM) via dynamic programs and hundreds of interactive exhibits. Our goal is to remove financial and identity barriers to access to STEM, create world-class STEM experiences, and create bridges to the STEM community. Strong connections with community organizations and leaders allow the Museum to make its resources broadly available. The Museum remains steadfast in its commitment to providing informal STEM education for diverse audiences including people with disabilities, inner-city youth, girls and women, and ethnic and racial minorities.

The Museum of Science is the leading organization in the Commonwealth that inspires and educates the next generation STEM workforce. When people come to Massachusetts to visit us, they also visit other cultural institutions, stay in hotels, and eat in restaurants. We will play a leading role as the Commonwealth's tourism economy recovers from the pandemic, but we need to remain viable to be able to do so.

Due to the pandemic, the Museum of Science was forced to close its doors from March 12, 2020, through July 24, 2020, and again from December 12, 2020, through February 7, 2021. Despite this, we are innovating our way out of the pandemic by providing free access to the Museum's programs, exhibits, and curricula online, reaching an additional one million people in the past year. The Museum has created new online engagement channels to continue delivering its best-in-class STEM content including *MOS at School*, a new, remote, synchronous and asynchronous learning initiative delivering uniquely engaging STEM education experiences to classrooms throughout Boston. *MOS at School* launched in November and is projected to reach 45,000 K-12 students between January and June 2021, a vast majority of whom are residents of Boston. Bringing the Museum into the classroom emotionally engages students in the STEM content they are learning.

The Museum is currently reopened under Phase 3 safely but with reduced capacity and increased costs. We have received no direct COVID relief funding to date, except for a small grant from the Mass Cultural Council. **Because of the size and scope of our operation, the Museum's financial loss has been severe. We have lost over \$55 million to date. We are operating with a budget that is half its normal size. We have had to lay off almost 50 percent of our staff. We had to take out a \$10 million line of credit in order to survive this year and we are now paying interest on this loan.**

The following Museum of Science programs provide direct benefits to the city of Boston and its residents. **In Fiscal Year 2020, despite being closed for 3.5 months due to the pandemic, these services had a value of \$1,169,572 and benefited 47,054 Boston residents.**

- **Community Access Program**
 - Funded Admissions for Group Visits of an out-of-school-time nature, including Youth Programs, Community Centers, Schools, Social Services Providers, Colleges and Universities, Cultural Organizations, and Hospitals
 - **Value: \$81,378**
 - **Served: 3,664 Boston residents**
- **EBT/WIC/HealthConnector Admission Program**
 - Free Admission for Boston residents with EBT/WIC/HCCCC for up to 4 people
 - **Value: \$440,525**
 - **Served: 17,621 Boston residents**
- **Wonderfund Admission Program**
 - Free admission for every foster care family in Boston
 - **Value: \$2,473**
 - **Served: 94 Boston residents** (53 adults, 39 children, and 2 children under 3 years)
- **Active Duty Military Admissions**
 - Free admission for active duty military in Boston
 - **Value: \$40,200**
 - **Served: 1,608 Boston residents**
- **Boston Library Admissions Program**
 - Free Museum admissions with library passes available at local Boston Public Library branches
 - **Value: \$188,400**
 - **Served: 7,536 Boston residents**
- **Miscellaneous School Visits for Schools in Boston**
 - Funded Admissions for School-Day Visits of Public Schools, Private Schools, and Special Education Collaboratives in Boston with high financial need
 - **Value: \$56,194**
 - **Served: 5,713 Boston students and teachers**
- **Eye Opener Program**
 - The Eye Opener program invites BPS 2nd grader students to the Museum for guided field trips with a Museum volunteer including touring the exhibit halls, visiting the Butterfly Garden, and getting a behind-the-scenes tour of the Live Animal Care Center. Admission, bus transportation, snack, and instruction are provided at no-charge.
 - **Value: \$100,040**
 - **Served: 1,957 Boston students and teachers**
- **Vertex STEM Explorers Program**
 - BPS middle school students visit Museum with exhibit hall admission, bus transportation, and instruction provided at no charge
 - **Value: \$13,745**
 - **Served: 1,142 Boston students and teachers**

- **High School Science Series Program**
 - Engages a diverse group of high school students and teachers with practicing scientists, science and technology experts, graduate students, and peers in the contextual applications of classroom learning. Students participate in a keynote panel presentation and hand-on activities around specific STEM themes once a month during the school year
 - **Value: \$5,035**
 - **Served: 1,146 Boston high school students and teachers**
- **Fenway High School Program**
 - Fenway High School Cross Roads students participate in weekly Tuesday visits to the Museum where they volunteer in various departments and have science and/or humanities class in the building. The Museum of Science also supports their annual Senior Science Fair and Junior Review events.
 - **Value: \$3,472**
 - **Served: 24 Boston students visiting the Museum 1x/week for 28 weeks and 246 Boston students and teachers for Fenway Science Fair field trip**
- **Buddies Exploring Science Together (BEST) Program**
 - Partnership program between BPS ASD strand classrooms, Boston University Sargent School Occupational Therapy Program, and the Museum of Science where students participate in six weeks of guided field trips to build their STEM and social skills
 - **Value: \$21,748**
 - **Served: 82 Boston students and teachers**
- **Traveling Programs**
 - Live educational outreach, including family programs at Boston Public Library branches, school programs at Boston Public Schools and private schools, participation at community fairs and festivals, after school workshops at Boys & Girls Clubs of Boston, preschool programs and Senior Center programming
 - **Value: \$23,790**
 - **Served: 2,743 Boston residents**
- **Overnights Program**
 - Boston students in grades 1-7 spend the night in the Museum with special programming allowing them to discover science in an engaging, educational, and interactive way
 - **Value: \$11,550**
 - **Served: 210 Boston students in grades 1-7**
- **Summer Courses Program**
 - Boston students entering grades 1-8 choose from a variety of hands-on, week-long STEM courses
 - **Value: \$3,900**
 - **Served: 13 Boston students**
- **Summer Youth Interns/MLK Scholars Program**
 - Boston student interns work at the Museum of Science during July and August an average of 21 hours a week
 - **Value: \$18,250**
 - **Served: 10 high school students who are residents of Boston**

- **Pre-Service Teachers Professional Development Program**
 - Training for Boston teachers and student teachers
 - **Value: \$24,120**
 - **Served: 66 students in Boston-based universities**
- **Teacher Enrichment Professional Development Program**
 - Professional development for Boston teachers that includes workshops and sabbaticals
 - **Value: \$37,276**
 - **Served: 102 Boston teachers**
- **Teacher Partner Program**
 - Free exhibit hall admission for Teacher Partners at Public and Private schools in Boston
 - **Value: \$18,475**
 - **Served: 739 Boston teachers**
- **EiE Curriculum – BPS Schools**
 - Implementation of EiE curricula in Boston Public Schools and professional development for BPS teachers
 - **Value: \$79,000**
 - **Served: 1,625 Boston students and 65 teachers**

There are programs for which the Museum of Science is unable to calculate the number of Boston residents directly impacted or the direct dollar value of the benefit to the city of Boston. These include:

- **Women & Girls in STEM Programming** empowers all women and girls, regardless of background, race, or socio-economic status, to see themselves as STEM learners and professionals. Program goals include increasing girls' interest in STEM, helping students connect with female STEM professionals, and providing women with practical tools and strategies to advance their professional goals. Programs include *Student and Family Education Days* where visitors have the opportunity to interact with female scientists and engineers paired with Museum educators at hands-on educational activities throughout the Museum's Exhibit Halls, and *Mentoring Night* where college students network with female STEM professionals.
- **Forum** programs engage participants in deliberative, inclusive conversations about issues that lie at the intersection of science and society. These programs allow Museum visitors, scientists, and policymakers to share their perspectives and learn from one another. The Museum of Science has developed and hosted over 100 Forum programs on a wide variety of topics.
- **Community Initiatives** is a new program where we seek to leverage the Museum's leadership in the community to bring a wide variety of voices together to work on common and complex issues affecting our society. The Museum of Science's role is to foster these relationships, develop new ones, and create innovating programs to further their missions. One of those programs is our *Town Hall*, where we convene thought leaders from across science and technology to help us all understand, and shape, the world around us. The Museum has developed and convened six *Town Halls* addressing issues surrounding the COVID-19 pandemic and vaccines.
- **SubSpace** redefines adult experiences at the Museum of Science exploring an unprecedented fusion of art, social science, and the future of the human experience. Art, science, and technology collide, creating a new wave of nightlife that is intelligent, provocative, and one-of-a-kind. From musical tributes in the Charles Hayden Planetarium to performance art installations, SubSpace is an ever-evolving lab for Boston's most intriguing and immersive experiences.

- **Astronomy After Hours** offers our starry-eyed public free evenings full of astronomy-themed fun. On Friday nights from April to October, the Astronomy After Hours team hosts a variety of hands-on astronomy and space science activities. When weather allows, the Museum has small telescopes available for a hands-on experience, and visitors have the opportunity to view the evening's featured astronomical objects through the museum's 6" and 12" Schmidt-Cassegrain telescopes.
- **Public Events** put the power of discovery in Museum visitors' hands and include Themed Weekends and Special Programs. Whether it is our Book Club for the Curious, computer science, nanotechnology, or butterflies and caterpillars, kids and adults always find something to inspire them.
- **Universal Design (UD)** is an approach that helps the Museum to meet the challenge of being inclusive to people with disabilities by developing and designing exhibitions and programs that are inclusive of, and provide access for, the wide range of visitors by promoting choice. These include ASL Interpretation, CART reporting, Assistive Listening Systems, EH Audio Labeling, Narrative Description of the Building Layout, Mobility, Omni interpretation, and Planetarium interpretation.

The programs listed above demonstrate the community effect and benefit that the Museum of Science provides to the city of Boston and its citizens.

COMMUNITY BENEFITS RECAP

Please note that the deadline for Community Benefits is April 1, 2021. There are also two additional data points we would like to collect this year (see footnotes for more info).

Once completed, please rename the document to reflect the name of your organization. Email an excel and PDF version to sharon.butler-charles@boston.gov.

INSTITUTION NAME:

Museum of Science

FINANCIAL YEAR:

FY2020

Program Name	Brief Program Description	Amount (\$)	Cash, In-Kind, or Both ¹	1-time or Ongoing ²	Who is Served ³	Program Initiator ⁴	City-wide or Neighborhoods Served ⁵	Community Benefit Category ⁶	Partners
Community Access Program	Funded Admissions for Group Visits of an out-of-school-time nature, including Youth Programs, Community Centers, Schools, Social Services Providers, Colleges and Universities, Cultural Organizations, and Hospitals	\$81,378	In-Kind	Ongoing	3,664 Children & Adults	Museum of Science, Schools, and Community Organizations	City-wide	Education	Community-Based Organizations
EBT/WIC/Health Connector Admissions	Free Admission for Boston residents with EBT/WIC/HCCCC for up to 4 people	\$440,525	In-Kind	Ongoing	17,621 Boston residents	DTA, WIC, CBOs	City-wide	Education	DTA, WIC, CBOs
Wonderfund Family Admissions	Free admission for every foster care family in Boston	\$2,473	In-Kind	Ongoing	94 Boston residents (53 adults, 39 children, and 2 under age 3)	DCF, Wonderfund	City-wide	Education	Mass Department of Children and Families, Wonderfund of Massachusetts
Active Duty Military Admissions	Free admission for active duty military	\$40,200	In-Kind	Ongoing	1,608 Boston residents	Museum of Science	City-wide	Education	
Boston Library Admissions	Free Museum admissions with library passes available at local Boston Public Library branches	\$188,400	In-Kind	Ongoing	7,536 Boston residents	Museum of Science and Boston Public Library	City-wide	Education	Boston Public Library
Miscellaneous School Visits for schools in Boston	Funded Admissions for School-Day Visits of Public Schools, Private Schools, and Special Education Collaboratives in Boston with high financial need	\$56,194	In-Kind	Ongoing	5,713 Students & Teachers	Museum of Science	City-wide	Education	Boston Public Schools
Eye Opener Program	The Eye Opener program invites BPS 2nd grader students to the Museum for guided field trips with a Museum volunteer including touring the exhibit halls, visiting the Butterfly Garden, and getting a behind-the-scenes tour of the Live Animal Care Center. Admission, bus transportation, snack, and instruction are provided at no-charge.	\$100,040	Both	Ongoing	1,957 Students & Teachers	Museum of Science	City-wide	Education	Boston Public Schools
Vertex STEM Explorers Program	BPS middle school students visit Museum with exhibit hall admission, bus transportation, and instruction provided at no charge	\$13,745	In-Kind	Ongoing	1,142 Students & Teachers	Museum of Science and Vertex Pharmaceuticals	City-wide	Education	Boston Public Schools
High School Science Series	Engages a diverse group of high school students and teachers with practicing scientists, science and technology experts, graduate students, and peers in the contextual applications of classroom learning. Students participate in a keynote panel presentation and hand-on activities around specific STEM themes once a month during the school year.	\$5,035	In-Kind	Ongoing	1,146 Students & Teachers	Museum of Science	City-wide	Education	Boston Public Schools

Fenway High School Program	Fenway High School Cross Roads students participate in weekly Tuesday visits to the Museum where they volunteer in various departments and have science and/or humanities class in the building. The Museum of Science also supports their annual Senior Science Fair and Junior Review events.	\$3,472	In-Kind	Ongoing	24 students 1x/week for 28 weeks and 246 students and teachers for Fenway Science Fair Field Trip	Museum of Science	City-wide	Education	Fenway High School
Buddies Exploring Science Together (BEST)	Partnership program between BPS ASD strand classrooms, Boston Univeristy Sargent School Occupational Therapy Program, and the Museum of Science where students participate in six weeks of guided field trips to build their STEM and social skills	\$21,748	In-Kind	Ongoing	82 Students & Teachers	Museum of Science	Allston, Jamaica Plain, and Roxbury	Education	Boston Public Schools, Boston University Sargent School Occupational Therapy Program
Traveling Programs	Live educational outreach, including family programs at Boston Public Library branches, k school programs at Boston Public Schools and private schools, participation at community fairs and festivals, after school workshops at Boys & Girls Clubs of Boston, preschool programs and Senior Center programming	\$23,790	In-Kind	Ongoing	2,743 Children & Adults	Community-Based Organizations, Boston Public Library, Boston Public Schools, or Museum of Science	City-wide	Education	Community-Based Organizations, Boys & Girls Clubs of Boston, Boston Public Library, Boston Red Sox
Overnights	Boston students in grades 1-7 spend the night in the Museum with special programming allowing them to discover science in an engaging, educational, and interactive way	\$11,550	In-Kind	Ongoing	210 Students & Teachers	Museum of Science, Boston Public Schools, and Community -Based Organizations	City-wide	Education	Boston Public Schools and Community-Based Organizations
Summer Courses	Boston students entering grades 1-8 choose from a variety of hands-on, week-long STEM courses	\$3,900	In-Kind	Ongoing	13 Students	Museum of Science	City-wide	Education	N/A
Summer Youth Interns, MLK Scholars	Boston student interns work at the Museum during July and August an average of 21 hours/week	\$18,250	Cash	Ongoing	10 high school students who are residents of Boston	Museum of Science	City-wide (Specifically hired youth from Allston, Back Bay, Dorchester, Roslindale, Roxbury, South Boston)	Employment	John Hancock
Pre-Service Teachers Professional Development	Training for Boston teachers and student teachers	\$24,120	Cash	Ongoing	66 students in Boston-based universities	Museum of Science	City-wide	Education	Boston Institutions of Higher Education
Teacher Enrichment Professional Development	Professional development for Boston teachers that includes workshops and sabbaticals	\$37,276	Cash	Ongoing	102 Boston teachers	Museum of Science	City-wide	Education	Boston Public Schools Science Department
Teacher Partner Program	Free exhibit hall admission for Teacher Partners at Public and Private schools in Boston	\$18,475	In-Kind	Ongoing	739 Teacher Partners from Boston Schools	Museum of Science	City-wide	Education	Boston Public Schools
EIE Curriculum - BPS Schools	Implementation of EIE curricula in Boston Public Schools and professional development for BPS teachers	\$79,000	Both	1-time	1,625 students and 65 teachers	Museum of Science	Neighborhood (East Boston, Charlestown, North End)	Education	Boston Public Schools

\$1,169,572

47,054

Footnotes

1 Does the institution's support for the program include a cash outlay, non-cash contributions (ex: use of property, equipment, supplies, etc), or a mixture of the two? If a mixture, please provide the approximate % of cash vs. in-kind.

2 Is the program a one-time expenditure by the institution or is it part of multi-year commitment? If multi-year, please indicate the length of the commitment.

3 Who is the target beneficiary of the program (ex: Boston youths with asthma)? Please be specific.

4 Who started the program (i.e. institution, Mayor, Police Commissioner, School Superintendent, etc)? Please be specific.

5 Is the program city-wide? If not, which neighborhood(s) are served by the program? Options include: City-wide, Allston, Back Bay, Beacon Hill, Brighton, Charlestown, Chinatown, Dorchester, East Boston, Fenway-Longwood, Hyde Park, Jamaica Plain, Mattapan, Mission Hill, North End, Roslindale, Roxbury, South Boston, South End, West End, and/or West Roxbury

6 Which category does the program fall under? Categories include: Built Environment, Community Health, Cultural, Direct Monetary Support to City of Boston Programs, Education, Employment, Good Neighbor Activity, Housing, Social Environment, Violence Prevention. Please see descriptions of the categories below.

Built Environment: active transportation options, parks and open space, access to healthy foods

Community Health: community health initiatives, education and outreach beyond the charitable mission of the institution

Cultural: access to cultural spaces, activities and programs

Direct Monetary Support to City of Boston Programs

Education: post-secondary access, scholarships, school funding, supports and resources, and investment in educational

Employment: workforce development programs, job readiness training, summer jobs program

Good Neighbor Activity: donations of facilities, goods, and/or supplies, monetary support of community associations,

Housing: development and maintenance of safe, stable, affordable living accommodations

Social Environment: social networks, participation, cohesion, capital, support, inclusion, and integration

Violence Prevention: youth violence, sexual violence and other community violence prevention

Other