

Chicago Impact Outlook



The city of Chicago has compiled a Hardship Index utilizing data from the U.S. Census Bureau to highlight communities that are significantly deprived of educational resources, career resources, economic capital and experience a high rate of crime. AeroStar's goal is to provide additional education resources, career resources, long term consistent capital and reduce crime rates by investing into the youth's interest within science, technology, engineering and mathematics within the Chicago metro's aviation industry.

Datasets:
 Chicago Data Portal <https://data.cityofchicago.org/Health-Human-Services/hardship->
 US Bureau Labor Statistics https://www.bls.gov/oes/current/oes_16980.htm#00-0000
 Chicago Police Department Please reach out to XXX for data
 AeroStar Program 2020 Please reach out to XXX for data

Chicago Metropolitan Aviation Occupation Data (Us Bureau Labor Statistics)

Occupation code	Occupation title	Employment	Employment RSE	Employment per 1k jobs	Location quotient	mean wage	Mean wage RSE	Education *Onet
53-2031	Flight Attendants	10,720	10.20%	2.293	2.79	\$51,070	2.50%	Associates
53-2011	Airline Pilots, Copilots, and Flight Engineers	7,240	19.80%	1.549	2.69	\$195,060	11.50%	Bachelors
49-3011	Aircraft Mechanics and Service Technicians	3,530	8.90%	0.755	0.83	\$70,930	6.00%	Associates
53-2021	Air Traffic Controllers	760	0.00%	0.162	1.07	\$146,950	2.40%	Associates
53-1041	Aircraft Cargo Handling Supervisors	520	12.40%	0.112	1.73	\$65,200	4.60%	High School
53-2012	Commercial Pilots	410	21.20%	0.088	0.34	\$112,550	11.50%	Associates
53-2022	Airfield Operations Specialists	270	11.50%	0.058	0.8	\$54,540	6.90%	Bachelors

Investing in Long Term Community Growth

AeroStar's goal is to utilize Chicago's aviation industry and youth development to provide long term growth in communities that are experiencing hardship. Even with 42 students, we can make an \$1,118,919.00 impact in 10 years.

Minimum Community Impact Outlook with Aerostar Integration (Associates Completion)

Years until Impact	# Students	Hardship Index	\$ Per Capita over 25 w/o Diploma	Total \$ Increase
10 Years	22			\$615,939.00
Auburn Gresham	1	83	\$12,961.00	21.3
Austin	1	88	\$13,785.00	25.4
Bridgeport	1	85	\$13,781.00	35.4
East Garfield Park	2	91	\$12,765.00	41.5
Englewood	1	74	\$15,528.00	18.5
Gage Park	1	20	\$35,787.00	11.8
Hyde Park	3	71	\$15,089.00	41.6
Loop	1	14	\$39,056.00	4.3
Morgan Park	2	44	\$22,677.00	19.2
Riverdale	4	34	\$27,249.00	22.4
South Shore	2	17	\$37,524.00	13.4
Uptown	1	28	\$26,282.00	16.2
Washington Park	2	29	\$25,113.00	18.8
5 Years	12			\$313,097.00
Beverly	1	89	\$11,317.00	26.3
Englewood	1	74	\$15,528.00	18.5
Gage Park	3	20	\$35,787.00	11.8
Oakland	3	67	\$16,134.00	35.9
Riverdale	2	34	\$27,249.00	22.4
South Shore	1	17	\$37,524.00	13.4
Washington Park	1	29	\$25,113.00	18.8
3 Years	8			\$189,883.00
Auburn Gresham	1	83	\$12,961.00	21.3
Morgan Park	3	44	\$22,677.00	19.2
South Shore	3	17	\$37,524.00	13.4
Washington Park	1	29	\$25,113.00	18.8
Grand Total	42			\$1,118,919.00

Maximum Community Impact Outlook with Aerostar Integration (Bachelors Completion)

Years until Impact	# Students	Hardship Index	\$ Per Capita over 25 w/o Diploma	Total \$ Increase
15 Years	16			\$2,735,491.00
Austin	1	88	\$13,785.00	25.4
East Garfield Park	2	91	\$12,765.00	41.5
Gage Park	1	20	\$35,787.00	11.8
Hyde Park	2	71	\$15,089.00	41.6
Loop	1	14	\$39,056.00	4.3
Morgan Park	2	44	\$22,677.00	19.2
Riverdale	3	34	\$27,249.00	22.4
South Shore	1	17	\$37,524.00	13.4
Uptown	1	28	\$26,282.00	16.2
Washington Park	2	29	\$25,113.00	18.8
10 Years	18			\$3,089,205.00
Auburn Gresham	1	83	\$12,961.00	21.3
Beverly	1	89	\$11,317.00	26.3
Bridgeport	1	85	\$13,781.00	35.4
Englewood	2	74	\$15,528.00	18.5
Gage Park	3	20	\$35,787.00	11.8
Hyde Park	1	71	\$15,089.00	41.6
Oakland	3	67	\$16,134.00	35.9
Riverdale	3	34	\$27,249.00	22.4
South Shore	2	17	\$37,524.00	13.4
Washington Park	1	29	\$25,113.00	18.8
5 Years	8			\$1,341,803.00
Auburn Gresham	1	83	\$12,961.00	21.3
Morgan Park	3	44	\$22,677.00	19.2
South Shore	3	17	\$37,524.00	13.4
Washington Park	1	29	\$25,113.00	18.8
Grand Total	42			\$7,166,499.00

Grade Confidence & Need for Education

Communities	# Students	Grade Confidence	Need for Education
Auburn Gresham	2	2	2
Austin	1	1	1
Beverly	1	1	1
Bridgeport	1	1	1
East Garfield Park	2	2	2
Englewood	2	2	2
Gage Park	4	4	4
Hyde Park	3	3	3
Loop	1	1	1
Morgan Park	5	5	5
Oakland	3	3	3
Riverdale	6	5	6
South Shore	6	4	6
Uptown	1	0	1
Washington Park	4	3	4
Grand Total	42	37	42

Helping Students Achieve

Our results from surveying students from high hardship index communities within our program indicated an 88% confidence in their grades and a 100% confidence in a need for education. This highlights our ability to significantly improve the current lack of high school diplomas for individuals over the age of 25.

Grade Confidence: Do you maintain good grades in school?

Responses: 1 - Yes 0 - No, Not Sure

Need for Education: How important is it that you do well in class?

Responses: 1 - Very & Somewhat important 0 - Nullified

Career Resources and Ability to Focus

Communities	# Students	Career Resources	Ability to Focus
Auburn Gresham	2	2	2
Austin	1	1	0
Beverly	1	1	1
Bridgeport	1	1	1
East Garfield Park	2	1	2
Englewood	2	1	0
Gage Park	4	3	2
Hyde Park	3	2	1
Loop	1	0	0
Morgan Park	5	4	2
Oakland	3	2	2
Riverdale	6	3	5
South Shore	6	4	4
Uptown	1	0	1
Washington Park	4	3	1
Grand Total	42	28	24

Career Growth & Development

Our results from surveying students from high hardship index communities within our program indicated a 67% confidence in access to career resources and a 57% confidence in the ability to focus. AeroStar mission is to provide these students reliable long term career resources and strengthen their skills to improve their ability to focus.

Career Resources: Do you have a variety of resources to help you decide a career path?

Responses: 1 - Yes 0 - No, Not Sure

Ability to Focus: Do you have a hard time staying focused?

Responses: 1 - No 0 - Yes, Not Sure

Crime Data: September 25 2020 (1 Year)

Community	# Students	Hardship Index	Crime Count	Crime Ranking	% Age 16+ UNEMPLOYED
Austin	1	88	15130	1	28.6
Loop	1	14	10791	3	8.4
South Shore	6	17	8625	6	8.2
Auburn Gresham	2	83	7410	8	19.6
Englewood	2	74	6216	14	28.3
East Garfield Park	2	91	4947	19	23
Uptown	1	28	3656	27	10
Washington Park	4	29	2828	33	9.5
Morgan Park	5	44	2139	42	9.6
Gage Park	4	20	2105	43	8.9
Hyde Park	3	71	1982	45	13.1
Bridgeport	1	85	1510	51	17.3
Riverdale	6	34	1358	56	10
Beverly	1	89	911	68	35.9
Oakland	3	67	650	71	16.5
Grand Total	42				

Building Opportunity to Reduce Crime

Building fundamental career resources, focused academics and long term earning potential will reduce the rate of crime in communities that have a high hardship index and crime ranking.

Permanent Solutions

Our programs are specifically tailored to target youth minorities of which are more susceptible to being initiated into gang violence and becoming trapped in the criminal justice system.

STEM Availability & Interest

Community	# Students	Hardship Index	STEM Availability	Desire for STEM
Auburn Gresham	2	83	1	1
Austin	1	88	1	1
Beverly	1	89	1	1
Bridgeport	1	85	1	1
East Garfield Park	2	91	1	2
Englewood	2	74	2	1
Gage Park	4	20	4	4
Hyde Park	3	71	3	3
Loop	1	14	0	1
Morgan Park	5	44	4	4
Oakland	3	67	0	3
Riverdale	6	34	4	6
South Shore	6	17	3	6
Uptown	1	28	0	1
Washington Park	4	29	3	4
Grand Total	42		28	39

School STEM Programs

Our results from surveying students from high hardship index communities within our program indicated a 67% confidence in STEM program availability and a 93% confidence to participate in STEM programs.

Stem Availability: Do you have access to STEM-related programs at your school?
Responses: 1 - Yes 0 - No, Not Sure

Desire for Stem: Are you interested in STEM programs that may be offered at your school or in your community?
Responses: 1 - Yes 0 - No, Not Sure

Filling the Gap

Not every community can afford to provide the STEM programs needed, at AeroStar our mission is to provide the best STEM programs for the people with the most need.

Desire for Aviation Programs & Careers

Community	# Students	Hardship Index	Aviation Program	Aviation Career
Auburn Gresham	2	83	2	2
Austin	1	88	1	1
Beverly	1	89	1	1
Bridgeport	1	85	1	1
East Garfield Park	2	91	2	2
Englewood	2	74	1	2
Gage Park	4	20	3	4
Hyde Park	3	71	3	3
Loop	1	14	1	1
Morgan Park	5	44	4	4
Oakland	3	67	1	1
Riverdale	6	34	6	6
South Shore	6	17	4	6
Uptown	1	28	1	1
Washington Park	4	29	3	3
Grand Total	42		34	38

School Aviation Programs

Our results from surveying students from high hardship index communities within our program indicated a 80% confidence of interest in expanding aviation programs and a 90% confidence to participate aviation career training.

Aviation Program: Do you wish there were more programs offered to learn about aviation?
Responses: 1 - Yes 0 - No, Not Sure

Aviation Career: Are you interested in learning more about careers in aviation?
Responses: 1 - Yes 0 - No, Not Sure

Expanding Operations to support the Youth

Within our program we have seen a significant increase in demand for what we can offer the students. We want to be a reliable resource for the youth to grow, that is why we are expanding operations and actively researching our audience.

Bridging the Gap

Community	# Students	Need for Education
Female	18	18
Auburn Gresham	1	1
East Garfield Park	2	2
Englewood	1	1
Gage Park	4	4
Hyde Park	1	1
Morgan Park	1	1
Oakland	1	1
Riverdale	2	2
South Shore	3	3
Washington Park	2	2
Male	24	24
Auburn Gresham	1	1
Austin	1	1
Beverly	1	1
Bridgeport	1	1
Englewood	1	1
Hyde Park	2	2
Loop	1	1
Morgan Park	4	4
Oakland	2	2
Riverdale	4	4
South Shore	3	3
Uptown	1	1
Washington Park	2	2
Grand Total	42	42

Building the Foundation for Female Minorities

The AeroStar program has been successful at grasping the interest of young female and male youths. We are proud to have such a strong representation of young women participating in our institute.



AeroStar
AVION INSTITUTE

Thank You

Thank you for taking the time to learn about our mission, read our research and listen to our communities needs.

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 Young Women's Leadership Charter School
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