

Y STEM & CHESS INC. EXECUTIVE SUMMARY

Y STEM and Chess Inc. (YSC) is utilizing our 21st Century technology and understanding to help Idaho infuse their core agriculture farm jobs into the world of high tech whether it applying technology to agriculture or into something new. By recruiting children from underserved backgrounds, we can draw from a huge talent base that has not been tapped to meet our needs. We can easily identify, educate, and mentor children that will be able to succeed in STEM programs/jobs in the near, mid and long term. This will develop the talent pipeline that everyone wants but no-one knows how to expeditiously build, until now.

YSC has the solution. We can help unfilled STEM jobs and allow Idaho to start collecting on the \$412 MM, we are missing from every open STEM jobs. By investing in YSC and its online program today, we can help Idaho establish itself as the premier STEM powerhouse in the country. Idaho has been told by STEM-related industries that they would love to come to the state BUT they need STEM-skilled manpower at all levels to staff the operations. Near term, solutions focus on how quickly we fix immediate needs for qualified STEM staffing. It is also short-sighted and wasteful approach to dealing with our underlying problem.

With the influx of funds, we can continue to build out our website and recruit mentors from across the country to work with our students. Having mentors is a critical piece to the overall success of STEM and our students. We are no longer restricted by logistical and geographic concerns. Our students can reside in their regions and our mentors can stay where they live. Our long term goal is to recruit STEM professionals and students across the country allowing us to constantly teach from 3 pm EST until 10 pm Pacific during the day and then all day on the weekends with automated lessons.

What we need is to build a strong foundation for long term solutions to fulfill the requirements of a 21st Century “technology embedded” society. Those solutions demand that all our population have a firm mastery of the basic skills, knowledge, and language of this emerging world in order to be productive citizens. Unlike the Industrial Age, we can no longer afford the practice of competitive education that discards our human assets with arbitrary testing models. Models that subjugate a large portion of our citizenry to inadequate learning and government support programs.

Our society is rapidly becoming technology based on all aspects of daily life. This requires the citizenry to master STEM-related skills, knowledge, and languages as part of their everyday life. It is of major importance regarding our school age youth. Their “education,” without that learning will be the equivalent of Industrial Age “uneducated and illiterate.”

Our program will have a measurable impact as well as tutor and mentor students that have largely done poorly on standardized tests. With our remote platform, we can help these children realize their hidden potential in STEM and school. This new found confidence in their education will raise Idaho education rank in the country

Who Are We?

Y STEM and Chess Inc. (YSC) is an Idaho based 501C (3) formed in 2017 to address the needs of our society and the ever-expanding role STEM plays in our 21st Century world. YSC was created to develop new approaches to learning that support STEM-related initiatives. The founding board members include a President and Executive Director who is a Computer Science professional that comes from a cultural and social background that has been considered not good candidates for STEM careers by traditional education standards. The Vice President is retired public school teacher.

Our Mission.

YSC mission is to ensure that the socially underserved and economically disadvantaged community of children master the basic tasks, skills, and knowledge to fully participate in the new technological 21st Century world and all things STEM-related. YSC provides individually focused “Mastery” learning modules in Chess, Math, and Coding to underserved children in a personalized introduction to the STEM world.

Chess, using a “win/lose” game setting, allows them to master inductive, deductive, and creative thinking in a competitive environment--all critical skills and mental disciplines of our 21st Century. Math, using the “go/no go” one hundred 100% Mastery process ensures that every individual can correctly utilize and execute math tools and language needed to function in our 21st Century. Coding is the new universal language of our world. Every student must be able to use one or more of these languages if they are to be literate in the new century. Finally, YSC provides individual mentoring and personal development programs to create strong, intelligent, well-rounded, and productive adults.

YSC Objectives.

In fulfilling our mission,

Short Term

- Help the target students (K thru 12) realize their real potential in our STEM related world through individualized mastery programs in Math, Chess, Coding, and Computer Science.
- Complete development work of our Mastery Programs.
- Provide mentoring services and build student confidence in these skills.

Long Term:

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- Work with our communities to provide access to the necessary tools (computers and internet access) to continue their STEM related development.
- Procure resources to help students apply for advanced learning and related financial aid.
- Establish student scholarships program for advanced education in all things STEM related for the underserved.
- Move the Y STEM learning platform online to provide greater efficiency of our resources and easier access to our learning system, particularly in rural areas. This will also make it feasible to rapidly scale our program geographically across the state and beyond.
- Create additional STEM-related disciplines in our program, allowing students to choose and explore their interests.

Important YSC Facts:

- Currently, 150 local students participating in learning sessions 5 days a week.
- 2 remote students in Washington state.
- 60% of participants are girls.
- By expanding our free chess, math and coding program, we will see increased rates in STEM-based learning, higher high school and college graduation rates among those with historically lowest test scores.
- Using Fast Forward Idaho and CWI our students can finish an associate degree by the time they finish high school. Our more driven students will be able to finish a B.S. degree by the time they finish high school.
- Entire school districts ready to sign up, and 36,000 students in Idaho ready to realize their hidden STEM potential.
- Overdeck Foundation interested in co-funding our program.