

“Inspiring Future Scientific Exploration”

At the end of the 20th century the United States with 5% of the world’s population was maintaining a 35% to 45% share of the world’s scientific and engineering activity. In 2001 the European Union graduated 50% more PhDs in science and engineering than did the United States, and it is on track to double the number of U.S. graduates by 2010. As other countries become more competitive in knowledge production and its application to the economy, the United States will lose its competitive edge. The nature of the world economy will mean that research and development opportunities will move to other countries more rapidly. Another reason our economy could suffer in the future.

In 1966, 71 percent of PhD graduates were U.S. born males, 6 percent were U.S. born females, and 23 percent were foreign born. In 2000, 36 percent of graduates were U.S. born males, 25 percent were U.S. born females, and 39 percent were foreign born. The ability of the United States to attract highly able foreign-born students and immigrant scientists and engineers reflects on the excellence of U.S. higher education. But the same is not true of our primary education system. The question is what can we do?

Giving Teachers the Tools to
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Young Minds

iFuSE

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As we reflect on our countries history and we look forward to her future we must be able to acknowledge both the positive and negative effects of our generation. The baby boomer generation was responsible for some of the highest economic growth rates the world has ever seen. Innovation and business growth where the key drivers over the last 50 years, but at what cost?

Today we live in a world that is polluted on the ground in the air, and potentially causing climate change that could affect every human being. Change must be effected but who will take on this responsibility. Unfortunately, as the baby boomers age and retire they will be less involved in innovation that can positively affect the future. This daunting task will be left up to the next generation.

We at JH Technologies believe that brilliant scientists and engineers will be the architects of the innovation that will affect our worlds future. These scientists and engineers are our children today. If these kids have the tools to inspire them at an early age they will be more likely to pursue careers in science. Ultimately these future scientists and engineers will drive the innovation that will create the changes needed to clean up our world.

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What Can We Do?

We at JH Technologies believe that we can contribute in a significant way through our “iFuSE” program! “iFuSE” is our way to “Inspire **FU**ture **Sci**entific **E**xploration”. As our economy falters and creates even greater funding shortfalls, equipment for schools becomes more difficult if not impossible to acquire. How can we expect to train scientists without the tools required for training? JH Technologies is stepping up and making use of our knowledge, expertise, and our network to create a new program which will put scientific tools into the hands our future scientists.

What Is The Purpose?

The purpose of our “iFuSE” program is to provide tools to those people and institutions that will be teaching/training our scientists of the future. The tools will primarily consist of microscopes and relevant accessories. These microscopes will be donated to qualifying schools and teaching organizations. JH Technologies will take on the responsibility of gathering new, used, or broken microscopes, repairing them, and distributing them to organizations whose focus will be on educating our children in grades from kindergarten through high school.

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How Can You Help?

The success of this program depends upon the commitment of JH Technologies, but more importantly we need the support of our clients and suppliers as well. Through a grass roots program, we will be asking everyone within JH Technologies and our network to help uncover potential recipients and donors. We want to be sure that everyone who knows us also knows that we are looking for teachers and organizations that can use microscopes in their teaching curriculums. Finally, we are looking for donors that can provide microscopes and accessories that can be used in the teaching environment.

How You Can Qualify As A Recipient

In order to qualify as a recipient you must fill out and submit qualification application. The qualification application is available on our website www.jhtechnologies.com. Once you have qualified for the program you will be notified when equipment suiting your specific needs will be available.

How You Can Help As A Donor

We are looking for companies, research organizations, colleges, universities, and individuals who are willing to donate their old and broken equipment they cannot use. We will repair it and make it useful to a child interested in science. Donors can also sponsor "iFuSE" with new equipment donations.

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Equipment We Need

- Stereo Microscopes
 - Boomstand or Basic stand
 - Fiber optic, LED, or halogen lighting
- Upright Compound Microscopes
 - For Biology
 - For Metallurgy
- Inverted Microscopes
 - For Biology
 - For Metallurgy
- Video Cameras
 - Digital Color
 - Analog Color
- Monitors –Color
- Accessories
- Video Couplers
 - Eyepiece Type
 - C-mount Type

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