



**MICROFACTURING  
INSTITUTES**

BUILDING THE FUTURE

## Spring 2019 Newsletter

It has been an exciting start to 2019 for our team at Microfacturing Institutes. Our first sponsored course in IoT Environmental Sensors finished in December 2018 at San Jose City College. Student teams started with a working environmental sensor kit, learned how it works, and made useful improvements to create their own product.

The teams finished the course with a presentation of their modified sensor design, along with a business and marketing plan of how their device could grow a business. Some clips of these presentations are captured on our website at [www.microfacturingusa.org](http://www.microfacturingusa.org), with a shout to Integrated Device Technology for their terrific student mentorship and sponsorship of this program.

One of our key education partners San Jose City College (SJCC) has incorporated a broader educational framework called TechNest, which provide students an exceptionally high value education in two years, drawing from some of the most desired skills in the industry today. Check out Technest at either the SJCC or Microfacturing websites.

This year is the period that we significantly expand course offerings and set up to scale this program in 2020. Our education approach emphasizes project based learning, where students work with cutting edge technology, learn how it works, and finally improve and deploy their improvements.

Our courses are designed and created by technology and business leaders who are recognized in their fields, then licensed to skilled educators who deliver the courses and academic credentials. Industry has a very active role in both student mentorship as well as proactive hiring of graduates.

Our educational development priorities this year are:

- Internet of Things (IoT) track: Environmental Sensing, Intelligent Lighting, and Creating a Digital Marketplace
- Artificial Intelligence track: Where AI is being used already, how to prepare to build a career that benefits from AI Data Analytics and the language of AI, and Creating Value from Digital Marketplaces
- 5G Communications: this course development will begin in early 2020 with first courses targeted for fall of the same year. 5G Wireless will be very different than 4G, and will create many new job opportunities. These courses instruct learners on what those differences are -- and how to turn them into interesting products and services.

Learners of all ages graduating with the above skills, plus others that can be provided by our educational partners are expected to have exceptional job opportunities. We're partnering with global corporations and governments to deliver what we're calling the Smart World Project, which connects this education to industry to government projects that create better products, a better society, and better jobs. Watch for more on Smart World in our next newsletter.



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I'd like to end with a recognition of all the talented and hard working people who came together on this project in 2017 and have created something very different in the field of education and job skills. We think that this type of program will significantly improve the upward mobility of learners of all ages and the societies that they live in. Thanks to all of our founding team – now we get to run.

Gregory Waters  
Founder