STEM WORKFORCE DEVELOPMENT IN MAINE

Session II: Non-traditional Fields & Recruitment Strategies

November 12th, 1:00 - 3:00pm EST

For more information:

bit.ly/siu111220



Science is US

EVENT ANNOUNCEMENT

STEM WORKFORCE DEVELOPMENT IN MAINE

Session II: Non-traditional Fields & Recruitment Strategies

NOVEMBER 12th, 1:00 - 3:00pm EST

RSVP & WEBINAR LINK:

bit.ly/siu111220

The Maine Chamber of Commerce's Education Foundation and Science is US have launched a series of virtual discussions on STEM Workforce Development in Maine. Join us on November 12th for Session II: Non-traditional Fields & Recruitment Strategies.

ABOUT THIS SERIES: SESSION II SPEAKERS:

These virtual discussions will provide participants with best practices for businesses and stakeholders to help recruit, train and expand the STEM workforce in Maine. By the end of the series, a set of recommendations will be developed to help shape future decisions in Maine.

Introductions: DANA CONNORS

President, Maine Chamber

of Commerce

Panelists: RACHEL KERESTES

Executive Director, Science is US

DR. LILY CALDERWOOD
University of Maine.
Cooperative Extension

ALLY COOMBS

Director, Bath Iron Works

MARIA MACDOUGAL

College Access Counselor, Finance Authority of Maine

Moderated by: **BEN GILMAN**

General Council, Maine Chamber of Commerce Education Foundation

For more information about this event, visit the Maine State Chamber of Commerce - Calendar of Events (www.mainechamber.org) or click HERE to RSVP today.

Event Sponsors:















STEM and the Future of the Workforce

STEM Workforce Development in Maine November 12, 2020

Rachel Kerestes

Executive Director

About

Science is US is a foundation-supported effort that brings together a diverse group of science, engineering, industry, higher education and labor organizations to galvanize a broad, bipartisan political base of support for science and technology



Steering Committee

AAAS

American Association for the Advancement of Science

ACS

American Chemical Society

AGU

American Geophysical Union

AIA

Aerospace Industries Association

APS

American Physical Society

COSSA

Consortium of Social Science Associations

Council on Competitiveness

FASEB

Federation of American Societies for Experimental Biology

IEEE-USA

Institute of Electrical and Electronics Engineers-USA

SIA

Semiconductor Industry Association



STEM and the American Workforce

We wanted to get a better sense of how STEM contributes to the U.S. economy and the economy of the states

We found that STEM powers U.S. economic growth and creates jobs for Americans of all backgrounds and levels of education

Total STEM contributions to USA

When considering the full impact of STEM on the U.S. economy—direct, indirect and induced contributions—we found an outsized impact with STEM supporting:

2/3 of U.S. jobs

69% of state tax revenue

69% of GDP

Total STEM contributions to Maine

We found that the majority of Maine's employment, economic activity and tax revenues are supported by STEM:

58% of Maine jobs

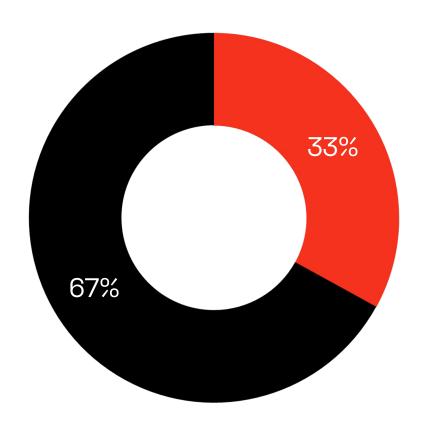
\$4.8 billion in Maine state and local tax revenues

61% of Maine's GDP

STEM employment in the U.S. workforce

Direct STEM employment accounts for one-third of U.S. jobs

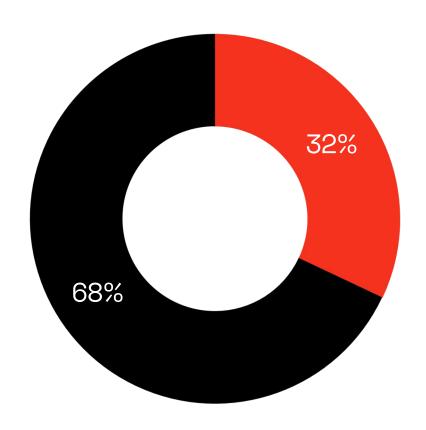
- STEM Jobs
- Non-STEM Jobs



Direct STEM employment in the Maine workforce

Direct STEM employment accounts for 32% of Maine jobs

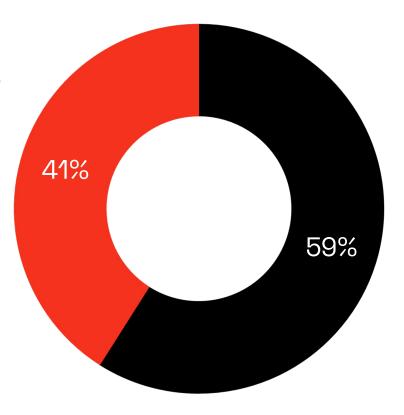
- Direct STEM Jobs
- Indirect STEM Jobs & Non-STEM Jobs



U.S. STEM employment by level of education

Six in ten U.S. STEM jobs are held by individuals with less than a bachelor's degree

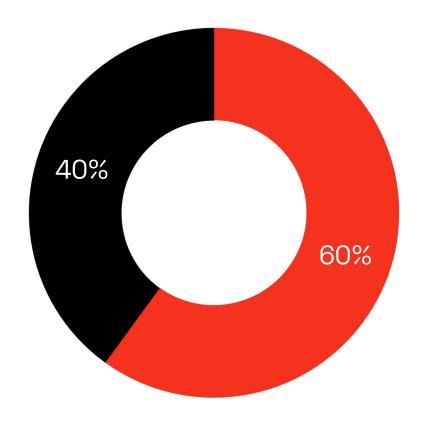
- Bachelor's Degree or Higher
- Less Than a Bachelor's Degree



Maine STEM employment by level of education

60% of Maine STEM jobs are held by individuals with less than a bachelor's degree

- Less Than a Bachelor's Degree
- Bachelor's Degree or Higher



Who is a STEM Professional?

Biochemists Architects Logisticians

Mechanics Nurses Math teachers

Pharmacists Electricians Policy analysts

Anthropologists Coders Bookkeepers

Mental health Museum Radio counselors technicians operators

How can STEM lead Maine forward?

Mitigating the pandemic

- Discovering a vaccine and therapeutics
- Contact tracing and epidemiology
- IT systems, logistics

Building the future

- Opportunity regardless of educational attainment
- Higher salaries
- Innovation opportunity feedback loop

How can we ensure that science can thrive?

We believe policy has a role to play in advancing science and technology.

Sound government policy—at all levels—that supports and nurtures science and engineering provides an environment that allows science and engineering to thrive.

And when STEM fields thrive, the country thrives.

How can Maine maximize STEM?

- Change the conversation—there are a wide-range of STEM jobs available in Maine today regardless of level of education
- STEM can drive Maine's job market and economy in the future
- Take the lead—prioritize STEM in education, workforce, economic development and policy

Science is US

Thank you

Rachel Kerestes

Executive Director, Science is US rkerestes@aaas.org





Alfond Leaders

STEM Workforce Series November 12, 2020

Presented by:

Maria MacDougal College Access Counselor



Background - Why?

- Maine's economy is shifting
 - Economic profile primarily traditional manufacturing and natural resources...but
 - 1 in 7 jobs over the next decade will be in Science, Technology, Engineering and Math (STEM) related fields
- Student debt levels
 - Maine graduates bachelor degree holders with the <u>sixth highest</u> level of student loan debt in the nation

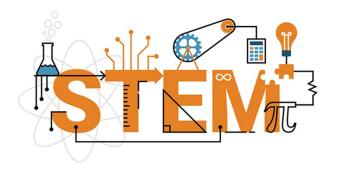








- Provide student loan debt reduction payments to:
 - Competitively-selected group of Maine workers
 - Working in occupations or capacities involving STEM skills, background, education, disciplines or other STEM capabilities or requirements
 - Program participants known as "Alfond Leaders"







- The Alfond Leaders Program will be open to individuals who:
 - Are either residents of Maine or will become residents upon being hired by a Maine-based employer;
 - Are or will be employed by a Maine-based employer in a STEM occupation;
 - Have a higher education degree or certification;
 - Have student indebtedness incurred in connection with obtaining such higher education degree or certification;
 - Expanded this year to include "soon-to-be-graduates"

"Maine-based employer" is an employer that operates a place of business located within the State of Maine that is required to withhold Maine income tax with respect to its employees.





- Alfond Leaders will receive debt reduction payments made on their behalf, paid in two disbursements:
 - First disbursement made after three years of living in Maine and working in a STEM field for a Mainebased employer. Second disbursement made after year six of living in Maine and working in a STEM field for a Maine-based employer.
- Aggregate debt reduction of <u>up to the lower of</u> 50% of the outstanding student loan debt or \$60,000 per recipient



Advisory Committee

- Provides programmatic leadership by advising the Harold Alfond Foundation & FAME in its administration of the Alfond Leaders Program.
- Assists in the selection and makes a recommendation of a slate of candidates to become Alfond Leaders.
- The Advisory Committee is comprised of Maine business and education leaders – Melissa Smith, CEO of WEX is the Chair





- Individuals recruited from across the nation and internationally.
- Advisory Committee determines recruitment focus for selection of recipients based on:
 - Transformative nature of the industry in which they work,
 - Positions which are in high demand and/or difficult to fill
 - Needs of economically depressed areas of the state.



Application Process

- Two application cycles per year while funds from the Foundation remain available.
- Application Cycle for this fall: September 15 November 15.
- Application requirements include:
 - Program application, including written essay & resume;
 - A statement of intent to live and work in Maine for six years;
 - An employment certification by a Maine employer; and,
 - Disclosure of the amount, source and terms of the student indebtedness;
 - Participation in an interview, if requested by Advisory Committee.





- Advisory Committee recommends qualified pool of candidates.
- In addition to application materials and interview performance (if applicable), selection will also focus on:
 - Record of scholastic, academic, extra-curricular, technical or other personal achievement, STEM professional qualifications, and transformative nature of the industry in which they work.
 - Alfond Leaders will be deemed by the Advisory Committee and FAME to be of high-quality, both personally and professionally, and to have STEM careers of importance to the Maine economy.



Alfond Leaders By the Numbers

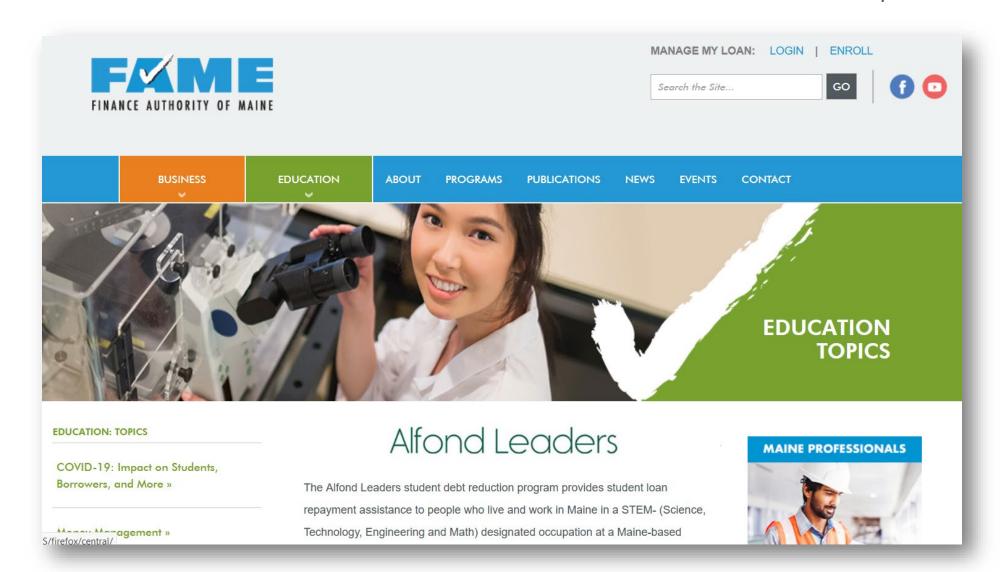
To-Date

- 155 participants awarded since 2017
- Total awards of \$4.8 million
- Average individual award at approximately \$31,000



AlfondLeaders.org

https://www.famemaine.com/education/topics/managingstudent-loans/alfond-leaders/alfond-leaders-faq/





Recruitment and Retention

 https://www.famemaine.com/wpcontent/uploads/2017/03/AlfondLeadersHandout_wDisclaimer.pdf

Resources for Maine employers

Maine employers can use this program to retain or recruit employees

Get the word out about Alfond Leaders to your current employees and be sure to send them to AlfondLeaders.org for more information and/or to apply for the program. Additionally, encourage your talent recruitment staff to become familiar with the Alfond Leaders program as they look to bring in STEM workers from out-of-state who may be eligible to apply to be an Alfond Leader. Click here for an information sheet about Alfond Leaders that you can share with existing and potential employees.





- Student loan relief/assistance programs are attractive to potential employees
 - Inform potential employees of available state programs:
 - Alfond Leaders
 - Education Opportunity Tax Credit (EOTC, better known as Opportunity Maine)- Visit: https://liveandworkinmaine.com/opportunity-maine/opportunity maine
- Offer student loan repayment; CARES act legislation allowed for up to \$5,250 in student loan repayments made by employers on behalf of employees to be tax-free to the employee for 2020 – there is pending legislation to make this a permanent threshold going forward



Thank you for joining us today! Find more FREE resources and information at **FAMEmaine.com/education**.

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