





Credentialing Innovations: Encouraging Industry-Academia Collaborations

Participants will learn about state-of-the-art alternative credentialing for skills to jobs. ISSIP-NSF event sponsors are keen to understand advances, obstacles, as well as Research funding opportunities to deepen knowledge and accelerate progress.

Wednesday December 15, 2021 12noon-3pm ET/9am-12noon PT

Summary Event Webpage Here links to prep materials and will link to recording

ISSIP-NSF Workshop Series on An Industry Perspective on STEM Education for the Future

Providing service opportunities and innovation recognition for professionals and students who grow and share their knowledge in an inter-connected world.

https://www.issip.org





Innovations in Credentialing & Industry-Academia Collaborations

Workshop 4 in the ISSIP/NSF Series on Future of Work, Learning, and STEM Skills

Dec 15, 2021



Thank You!

Lead Sponsor



Others

cisco.

Project Team

Yassi Moghaddam, ISSIP (PI) Dr. Haluk Demirkan, University of Washington (Co-PI) Dr. Lou Freund, San Jose State University (Co-PI) Dr. Martha Russell, Stanford Dr. Jo Yuen, ISSIP

Thank you, other Programming Committee Members & Workshop Chairs!

Ralph Badinelli, Professor, Virginia Tech, ISSIP BOD Member Terri Griffith, Chair in Innovation and Entrepreneurship Beedie School of Business, Simon Fraser University; ISSIP President-Elect Utpal Mangla, VP, IBM; ISSIP Strategy Council Chair Ammar Rayes, Distinguished Engineer, Cisco; ISSIP BOD Member Gonzalo Salgueiro, Distinguished Engineer, Cisco; ISSIP BOD Member Jim Spohrer, ISSIP Co-Founder & BOD Member Ulf Vinneras, Head of Service Product Management, Aruba (HPE); ISSIP President Heather Yurko, VP, Mastercard; ISSIP Past President, Strategy Council Member

And thank you, Distinguished Speakers!



About ISSIP

Thought Leadership in Service Innovation

ISSIP Platform connects Academia and Industry

- Events and forums for academia and industry representatives to collaborate
- Publications

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- Define Service Innovation as an academic discipline
- Provide professional association awards, recognition, badges for service innovation

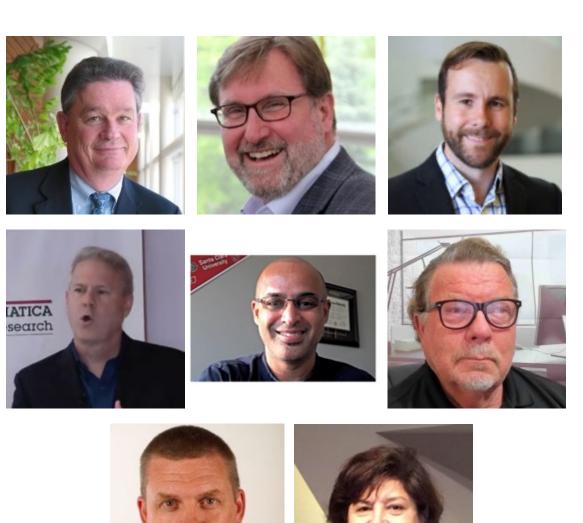


nfluence policy for Work and Education

- Work with the NSF and the EU in the area of future education
- Upskilling and Growth Mindset



9:00 PT ISSIP Welcome – VP and Exec Director



5 Minute Opening Statements

With 1-2 minute transition between speakers From top-left to bottom-right:

9:04 Jim Spohrer (ISSIP, Moderator)

9:06 Peter Janzow (Credly)

9:13 Sean Gallagher (Northeastern)

9:20 David Leaser (IBM)

9:27 Sudarshan Krishnamurthi (Microsoft) 9:34 Steve Wright (ICT and Digital Media, CCC) 9:41 Nathan Sowatskey (Cisco)

9:48 Yassi Moghaddam (ISSIP)

10:05-10:55 First round of Q&A/Discussion 11:05-11:55 Second round of Q&A/Discussion 11:55-12noon Closing Remarks and Thanks to All

Peter Janzow (Credly)

- Janzow (2018) <u>Unlock Career Potential With</u> <u>Digital Credentials</u>
- Credly is growing fast!
- "It's up to each of us to proactively plan and manage our career paths. Deciding to pursue a professional training certification is a great step in the right direction toward preparing yourself for a career in a field many organizations are increasingly relying on to upskill their workforce. To boost the impact of earning a specialized credential, many professional associations and organizations now issue a verifiable digital credential..."

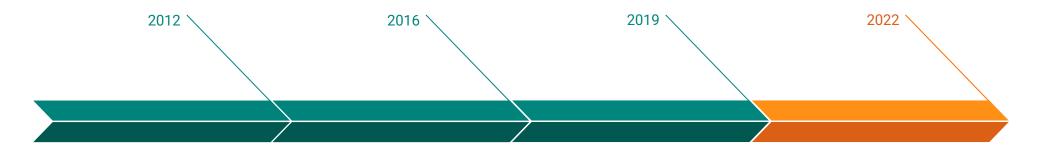


Q1: Quantitative value of digital credentials? How to know which to get to aim at best paying jobs?

Q2: Best strategies for using digital credentials by job seekers?

Building a Verified Talent Network

The Credly Story of Data-Driven Human Capital Decision-making



Inspire

Open standard for structured and verified skills

Evangelizing a vision for "resume-worthy" achievements

Build

Helping organizations build the business case for recognition & credentialing

Connecting credentialing data to business drivers: Attract, Engage and Retain Talent

Establishing early examples and best practices

Scale

Growing the network across industries and professions

Building density of credentials for jobs in key verticals: tech, finance, health care, skilled trades, soft skills

Tipping point: Tens of Millions of credentials and earners

Connect

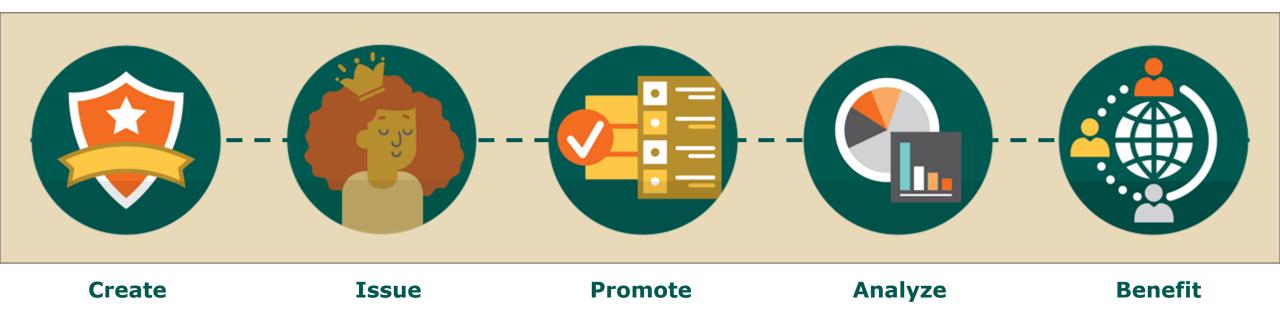
What can you do with verified skill credentials?

Connecting employers, certification and training groups, universities, & jobs

Unlocking opportunity at scale for individuals

Driving skill-based talent management

Life Cycle of Digital Credentials





Respected Credentials for the Most In-Demand Skills

The world's most recognized brands recognize their people with Credly digital credentials





Verified Skills in Human Capital Management through digital credentials

Which workers have what verified skills and credentials?

How can we source talent and accelerate hiring for projects and teams based on skills What skills do we have and which do we need for our future workforce?

How can we drive learning and career development throughout our extended workforce? Can we advance a diverse, more equitable talent agenda based on skill and merit? How will we ensure compliance with credentials required to do business

Credly

Skill-based talent management has become a business imperative for leading companies



Sean Gallagher (Northeastern)

- <u>Dr. Sean Gallagher</u> is founder and Executive Director of Northeastern University's Center for the Future of Higher Education and Talent Strategy, and Executive Professor of Educational Policy.
- Gallagher (2016) <u>The Future of University Credentials:</u> <u>New Developments at the Intersection of Higher</u> <u>Education and Hiring.</u>
- Online talk/recording on <u>credentialling innovation</u> and pace of change of skills needs in industry.



Q1: Do you see a maturity curve that employers follow when it comes to digital microcredentials?

Q2: Best strategies for using digital credentials by job seekers? Employers?

Research-Based Perspectives on Credentialing Trends iversity

Northeastern University Center for the Future of Higher Education and Talent Strategy

Northeastern University

Credentialing Trends Based on Recent Research



Still limited data on market demand and outcomes: important area of ongoing study



Surging consumer interest: short-term credentials as top working adult learner preference; significant growth in badge issuance, certificate enrollment, etc.



Greater employer acceptance of online learning/credentials, accelerated by pandemic



Employers and industry groups as credential issuers: >70% growth in 2020



Corporate L&D shifting toward J.I.T. "microlearning," microcredentialing, and curated digital course/content libraries



Steady adoption of HR tech – and growing use of skills-based hiring, talent analytics



Employer awareness and experience with digital credentials growing steadily – but still more guidance needed for employers, colleges, consumers

• Cultural change in addition to crucial infrastructure development

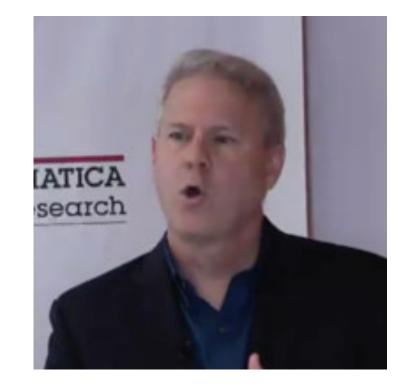
David Leaser (IBM)

- David's <u>Slides</u>.
- David's suggested prep materials:
 - Importance of Incremental Credentialing
 - Will Microcredentials be the Rx Needed to Fix Our Ailing Degree Systems?
 - Future-Proofing the Credentialing Ecosystem: Bringing Microcredentials Into the Fold
 - How IBM used badges to connect on-the-job learning to academic credit



David Leaser (IBM)

- David's Blog on <u>Training and Skills</u>.
- Leaser (2020) "<u>IBM Awards Its Three Millionth</u> <u>Digital Badge.</u>"
- "Higher ed and industry can now speak the same language: A digital badge can provide all of the information a college or university needs to make a decision on how much value to assign to the activity. The digital badge serves as a proxy transcript for the activity."



Q1: Quantitative value of digital credentials? How to know which to get to aim at best paying jobs?

Q2: Best strategies for using digital credentials by job seekers?

The power of incremental digital credentials

DAVID LEASER | FOUNDER OF THE IBM DIGITAL BADGE PROGRAM

@david_leaser

Pace of change is accelerating beyond our wildest imagination

50% of the labor force's current work activities are technically automatable by adapting existing technologies (McKinsey)

40% of U.S. jobs are in occupations likely to shrink or be cut by 2030 (McKinsey)

85 million jobs globally may be displaced by a shift in the division of labor between human beings and machines* (World Economic Forum)

*And 97 million new roles more adapted to this new division of humans and machines are expected to emerge.

Will it take four years to prepare for the jobs of the future?

At IBM, **50% of jobs no longer require a college degree** (Gallup)

60% of Americans prefer short-term training to degree programs (Strada Education Network)

36 million Americans hold some postsecondary education, but no completion, and they are no longer enrolled. This group is also known as the Some College, No Degree population (NCS Research)

Credential As You Go: The rise of incremental credentialing

Shouldn't we issue credentials along the way?

Professional Certificate in Full Stack Cloud Developer

MicroBachelors program

Badges in schools when ready, not after four years

@david_leaser

Eight benefits of incremental credentials



Align with the way people Actually Learn—non-linear Fill gaps and Save time and limited resources

Create progression, motivation and engagement Save the college system, not the diploma

Sudarshan Krishnamurthi (Microsoft)

- <u>Sudarshan</u> is a product management leader for Microsoft certifications. Sudarshan is passionate about new ways of skilling and helping deliver awesome learner experiences.
- Ung (2021) <u>What goes into creating Microsoft</u> <u>certifications?</u>
- <u>Ask the Experts</u> Video



Q1: Quantitative value of digital credentials? How to know which to get to aim at best paying jobs?

Q2: Best strategies for using digital credentials by job seekers? Learner care abouts for modern credentialing

- Credentials need to help learners on a path towards employability or better productivity at their jobs.
- Credentials demonstrate doing skills more than knowing skills.
- Delightful experience/ Anxiety-free process to earn credentials.
- Credentials are transferable Get credit for skills already demonstrated.
 - Stackable build on top of each other.

- Verifiable by employers, customers, partners.
 - Shareable on LinkedIn and other social sites.

<u>Steve Wright</u> (ICT and Digital Media, CCC)

- <u>Stephen Wright</u> | Director of Information Communications Technologies and Digital Media Sector, Doing What Matters for Jobs & the Economy, Economic & Workforce Development, California Community Colleges System
- Wright (2016) <u>Digital Badges and the Career</u> <u>Pathway: Assessing the Obstacles</u> "The badges we're looking at now focus on third-party certifications for which there's already a demand."



Q1: Do you see a maturity curve that employers follow when it comes to digital microcredentials?

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CCC Realities : Career Technical Education:

- Students with a wide variety of needs.
 - Entry level
 - Career Transformers
 - Up-skillers
- Decentralized curriculum development
- Regional governance and economic response
- Student completion / retention challenge



BBQ Question



Are there courses I could take that would really help me get a job to start a career ? ... in six months?

extended family member



Business Information Worker A Branded Pathway

>> Expanded Pathway Now Includes Advanced Stages

Business Information Worker PATHWAY TO SUCCESS





STAGE ONE

Keyboarding Microsoft Windows Microsoft Word Microsoft Excel Microsoft Outlook Information Systems Business Communications Human Relations/Customer Service



STAGE TWO

Microsoft PowerPoint Microsoft Excel, Intermediate Microsoft Access or Introduction to SharePoint Quickbooks Electronic Records Management Customer Relationship Management



SPECIALIST

Presentation/Marketing

Communication Support

Project Management Concepts

Salesforce Certification Prep



M

Salesforce Certification Prep

Get Industry Recognized Certifications/ Digital Badges for LinkedIn Profile

	Course Name or Topic	Certifications	
	Keyboarding		
	Microsoft Windows		
	Microsoft Word	MOS Word	
BIW I	Microsoft Excel	MOS Excel	
BIN	Microsoft Outlook	MOS Outlook	
	Information Systems		
	Business Communications		
	Human Relations/Customer Service		
	Microsoft PowerPoint	MOS PowerPoint	
	Microsoft Excel, Intermediate		
	Microsoft Access or Intro to	MOS Access	
=	SharePoint		
BW	QuickBooks	QuickBooks Certified User	
	Electronic Records Management	Certified Oser	
	Customer Relationship		
	Management		
	Presentation/Marketing		
Specialist	Communication Support		
bed		CompTIA Project	
S	Project Management Concepts	CompTIA Project+	

Salesforce Certified

Administrator



Manpower Support

Get Hired

"Employers can confidently look at the **California Community College's Business Information Worker Work Readiness Certificate/Pathway** as a tool to identify qualified potential job candidates. This program provides the "hiring for attitude and training for skills" foundations for entry-level jobs."

~ Phil Blair



Executive Officer – Manpower San Diego Author of "Job Won" (job-won.com)



Relevant IT Training Benchmarks

Consolidated from numerous one on one interviews with industry experts

- High School w/ Certification
 - CyberPatriot and A+ Certification
- 'Recognized' CCC credential
- Specified 3rd Party Certifications
- Relatively Low demand for AA/AS
- Bachelors Degree
- <u>Ten years experience</u>
- Up-Skilling as incumbent

Lesson: Get in the field, get started, continue to train



Response : ITTP

IT Technician Pathway





IT TECHNICIAN PATHWAY - CYBERSECURITY SPECIALIST

	COURSE	\geq	CERTIFICATION	\rightarrow	JOB
	 Introduction to Retail or Business Fundamentals Customer Service/Human Relations Business Communications Microsoft Office Essentials Information & Communications Technology Essentials Business Information Systems/Computer Information Systems 		▶ A+		Computer Retail Sales and Support
	 Computer Network Fundamentals Systems and Network Administration (Network Operating Systems) Installing, Configuring, and Administering a Microsoft OS Introduction to Information Security Systems 		 Network+ MCSA Server 2016 MCTS: Win 10 Security+ 		Help Desk/User Support
	 Routing & Switching Essentials Installing, Configuring, and Administering Linux Operating System Introduction to Scripting (Python/PowerShell) 		►CISCO CCENT ►LInux+		IT Technician
	CYBERSECURITY SPECIALIST	\geq	CERTIFICATION	\geq	JOB
PECIALIZATIO	Principles of Cybersecurity Analysis		►CSA+		Computer Security Analyst
	Introduction to Computer Forensics Investigations		►IACIS CFCE		Computer Forensic Investigator
	Introduction to Cybersecurity: Ethical Hacking		EC Council CEH		Penetration Tester
	Implementing Cisco Network Security		►CCNA Security		Network Security Specialist
	Certified Information Systems Security Professional		►CISSP		Cybersecurity Consultant

DIGITAL BADGES LEAD TO JOBS

The Business Information Worker and IT Technician-Cybersecurity Pathways lead to more than 25 of the most in-demand digital badges in business and IT.

FIND YOUR PATHWAY AT THE CALIFORNIA COMMUNITY COLLEGES

IT TECHNICIAN-CYBERSECURITY **BUSINESS INFORMATION WORKER** Information & Communications **Technology Essentials** Microsoft Office Excel Nie realit Microsoft Office Outlook **Computer Network Fundamentals Network Operating Systems** Microsoft Office Word Installing, Configuring & Administering a Microsoft OS Intro to Information Security Systems Microsoft Office Access N argest Microsoft Office PowerPoint **Routing & Switching Essentials** (2) N zavot Microsoft Office SharePoint Installing, Configuring & Administering a Linux OS Computerized Accounting with QuickBooks Principles of Cybersecurity Analysis Intro to Computer Forensics Investigations Maximizing Sales with Salesforce.com Intro to Cybersecurity: < EH **Ethical Hacking** Implementing Cisco (a) Network Security **Project Management Concepts** Certified Information Systems Char Security Professional FOR MORE INFORMATION VISIT (A) CCNA Scaling Networks ict-dm.net/pathways/digital-badges (2) **CCNA** Connecting Networks The Information Communications Cisco Wireless Network ليقع

The new reality

- Earn an industry recognized certification
- **Claim Badges and put** on Linked In Profile
- Be Found by recruiters



Technologies & Digital Media Sector Navigation Team

Fundamentals

Firewall Essentials

TERS™



ICT-DM.NET

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Fundamentals

Firewall Essentials

TERS™



ICT-DM.NET

Nathan Sowatskey (Cisco)

- Nathan is a lifelong-learner who uses microcredentialing to chart a career as a technology leader.
- Sowatskey (2021) <u>Cisco Cloud Experience White</u> <u>Paper: Continuity, Resiliency, and the Future of</u> <u>Work.</u>



Q1: What advise do you have for other lifelong learners, based on your experiences?

Q2: Best strategies for using digital credentials by job seekers?



Credentialing & Industry- Academia Collaborations

ISSIP-NSF Workshop Series on An Industry Perspective on STEM Education for the Future

Nathan Sowatskey Principal Engineer, Customer Experience (CX) office of the CTO December 15, 2021

A Lifetime of Credentials

- BSc. (hons) Computer Science, University College London, 1987-91
- Postgraduate Certificate, Computing, The Open University, UK, 2005-08
- Postgraduate Diploma, Networks and Distributed Systems, Open University, 2005-08
- MSc. Networks and Distributed Systems, The Open University, 2005-10
- Practical Machine Learning, Regression Models, Reproducible Research, Statistical Inference, Exploratory Data Analysis, Getting and Cleaning Data, R Programming, The Data Scientist's Toolbox, Coursera/John Hopkins University, 2016
- Google Cloud Platform Big Data and Machine Learning Fundamentals, Coursera, 2017
- Developing Data Products, Coursera, 2017
- Machine Learning with Python, Big Data University, 2017
- The Basics of Hyperledger Fabric, Udemy, 2018
- MSc. Artificial Intelligence and Deep Learning, Universidad de Alcalá, Spain, 2018-19
- Introduction to Deep Learning, AWS, 2020
- Data Science @Cisco Black Belt, 2020
- AWS Certified Cloud Practitioner, 2021

Questions and Observations

- Is there a useful ontology that could be derived from my (not untypical?) learning journey?
- Academic exams bring intellectual rigor and internalization
- Practical courses (Coursera, Udemy, ...) matter for hands on experience
- Industry qualifications (Cisco, AWS, ...) tick CV search boxes
- There is no end to the learning journey, just as there is no pause in the changing technology landscape

Yassi Moghaddam (ISSIP)

- Yassi is a lifelong learner, and executive director of the non-profit professional association ISSIP.org, which has recently started offering badges to community members, who exemplify knowledge sharing eminence and T-shaped skills, with problem-solving depth and communications breadth. She is also co-PI on the NSF workshop award exploring future of skills alignment between industry and academia.
- Moghaddam, Kwan, Freund, Russell (2021) <u>A Proposed</u> <u>Roadmap to Close the Gap Between Undergraduate</u> <u>Education and STEM Employment Across Industry</u> <u>Sectors</u>
- Moghaddam, Demirkan, Spohrer (2018) <u>T-Shaped</u> <u>Professionals: Adaptive Innovators</u>



Q1: What advise do you have for other lifelong learners, based on your experiences?

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An Industry Perspective On Skills Requirements For The Future (ISSIP NSF-sponsored work since 2019):

TEM Skills	Work Practice Skills	Soft Skills
rtificial Intelligence Pata Science/Analytics Sybersecurity Cloud Computing T Robotics Blockchain Open Source Biomedical Quantum Computing Programming	Project Management/Agile Methods Human-centered design Systems/Service Science Interdisciplinary Skills Baseline digital skills Baseline data/analytics skills Open Source Community Skills People management Entrepreneurship	Creativity Cognitive flexibility (adaptability, resilience, openness to change) Decision-making Leadership Communication skills Curiosity Risk-taking Emotional Intelligence Collaboration/ Teamwork Ethics Initiative Learning how to learn Problem solving
	Mindset	
Service,	Growth-mindset Probabilistic thinking Systems & Design thinking for Value	co-creation

Source: Moghaddam, Kwan, Freund, Russell, A Proposed Roadmap to Close the Gap Between Undergraduate Education and STEM Employment Across Industry Sectors, Springer, 2021 An evolving proposed roadmap to enable stakeholders align credentialling goals to increase the capacity of T-shape innovators

Key Takeaways





specialized and

foundational skills.



STEM job Special opportunities will consta continue to grow as te increasing demand continu for high-skilled workers with

Specialized skills are constantly changing as technologies continue to advance. Micro-learning can better facilitate rapid learning and upskilling for specialized skills. Industry leaders encourage educators to strengthen 4-year STEM degree programs to provide the broad Foundational Skills and mindsets that transfer across jobs and prepare the learner for microlearning throughout a lifetime.



ISSIP, early in the process of recognizing members through digital badging program





Excellence & Distinction in Service Innovation

Knowledge Sharing

Jim Spohrer (ISSIP, Moderator)

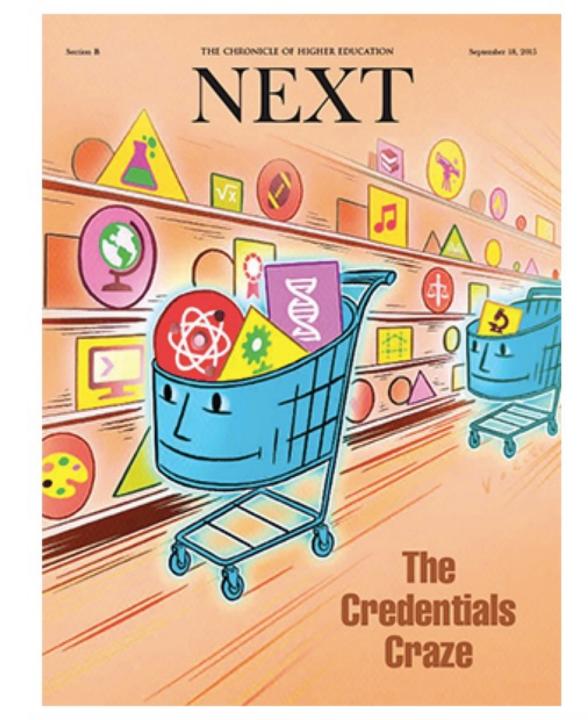
• On behalf of ISSIP, thanks to all our panelists and participants



Additional Readings and Perspectives

In The News

• The Chronicle of Higher Education https://www.chronicle.com/pack age/next-the-credentials-craze/



Also In The News

- Notable results from those surveyed include:
- 73% of employers are using talent analytics in some way to improve hiring
- 69% of employers support industry-led competency frameworks
- 87% of HR leaders report having heard of digital badges, with almost half (48%) noting they have encountered badges in screening candidates or hired a badge holder
- 34% of HR leaders indicated their organization uses hiring strategies with a lens on competencies over college degrees
- 42% of respondents say their organization is exploring and considering skills and competencybased hiring approaches

CISION HOME NEWS CENTER BLOG FRONT PAGE EDUCATION LIFESTYLE ARTS BUSINESS ENVIRONMENT GOVERNMENT INDUSTRY Tuesday, December 14, 2021 (m) RSS 🖂 Email N Research Shows Growing Employer Support for Competency Frameworks, Talent Analytics, and Skills-Based Hiring A new report sponsored by the 1EdTech Foundation and IMS Global Learning Consortium as part of the Wellspring Initiative presents data on employers' readiness to use standards-based digital skills frameworks and credentials for talent management Wellspring facilitates LAKE MARY, FLA. (PRWEB) DECEMBER 14, 2021 collaboration among IMS Global Learning Consortium, the leading non-profit edtech innovation collaboration, and organizations to develop its affiliate charitable organization, the 1EdTech Foundation, announced today the availability a more effective of a new research report that benchmarks and guides future strategies for adopting digital credentials and competency frameworks in corporate hiring and talent development education-topractices. This data is critical in today's job market, where employers struggle to find highemployment-to-lifelong quality candidates. learning ecosystem.

The study, led by Northeastern University's Center for the Future of Higher Education and Talent Strategy, synthesizes data from 750 talent leaders across a full range of U.S. industry sectors and organizational sizes. The report shows that employers believe industry-led external competency frameworks can help create a more fluid market for talent in their

industry. Increasingly, organizations rely on analytics and skills-based hiring, believing they will lead to more equitable results in recruiting

Mitchell Stevens (Stanford)

- <u>Mitchells Stevens</u> is a sociologists and professor in the School of Education at Stanford, and one of the leaders of the <u>Pathways Lab</u>, and the study of the new science of working learners.
- Beyer (2021) <u>Creating New Opportunities for</u> <u>Working Learners, an interview with Mitchell</u> <u>Stevens.</u>



Q1: Do you see a maturity curve that employers follow when it comes to digital microcredentials?

Q2: Best strategies for using digital credentials by job seekers? Employers?

Carola Schulz (Empirica)

- <u>Carola Schulz</u> is Research Consultant at Empirica studying at upskilling and reskilling.
- Recent EU Report on Upskilling.

Carola Schulz posted in Expert Group - High Tech Skills for Industry: Fostering New Service Growth and Jobs Creation ...

Expert Group - High Tech Skills for Industry: Fostering New Service Growth and Jobs Creation



Carola Schulz • 1st

Research Consultant at empirica Communication and Technology Research 1w •

Thanks to this great community for supporting is in this work!



Carola Schulz + 1st

Research Consultant at empirica Communication and Technology Research 1w • 🕲

Hot off the press! We are honoured to announce our final #skills4industry report https://lnkd.in/gFH6zCQN ! Thanks to Yassi Moghaddam Jim Spohrer from International Society of Service Innovation Professionals (ISSIP) and Laurent Probst from PwC for creating this work with us at empirica Communication and Technology Research - Tobias Hüsing Werner B. Korte Alexander Cuartas-Acosta ! Thanks to all our experts in skills and service science who provided their input!

Skills for Industry

Upskilling and Reskilling in the Post-Covid Era: Fostering New Services and Jobs Creation





Q1: Do you see a maturity curve that employers follow when it comes to digital microcredentials?

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Tim Aldinger

(CA Community Colleges - CCC)

- <u>Tim Aldinger</u> is Executive Director of <u>Workforce</u> <u>Development</u> at the Foundation for California Community Colleges. Aldinger leads ... workbased learning opportunities for high school and college students to help improve workforce readiness.
- Aldinger (2021) Foundational Tools To Improve Workforce Readiness



Q1: Do you see a maturity curve that employers follow when it comes to digital microcredentials?

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Ken Eisner (Amazon)

- <u>Ken Eisner</u>, Global Lead, AWS Educate, Amazon Web Services
- "To meet the moment, we need public-private partnerships between education, industry, and policymakers that speeds access to new curriculum and hands-on opportunities for the workforce. This includes empowering workers to obtain stackable industry an academic credentials, moving ownership of eduction into the learners' hands and encouraging lifelong learning."
- "We're at day one of this shift. Reskilling and upskilling require a mindset that values speed, iteration and collaboration between industry and education." (<u>Ref</u>)



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Startups to keep an eye on...



SkyHive (Sean Hinton)



Knack (Guy Halfteck)





https://www.issip.org

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https://www.issip.org



Society of Service Innovation Professionals

Providing service opportunities and innovation recognition for professionals and students who grow and share their knowledge in an inter-connected world.



Jim Spohrer https://www.linkedin.com/in/spohrer/