### **Summary**

A tested leader in technology-driven businesses with over 40 years of experience focused on accelerating the design, development, and commercialization of innovative technologies, products, and services. Experiences integrate a broad geographic and technology base across industries from clean energy/tech to consumer durables, with a career long focus on medical devices. A proven ability to form and lead high performance project and operational teams, create and manage strong intellectual property portfolios, as well as develop, structure, and drive collaborative business relationships with companies ranging from start-ups to premier multi-national organizations. Maintains a hands-on approach and an intimate working knowledge of technologies, operations, and user needs.

### **Experience**

2008 to Present

CIMIT: Consortia for Improving Medicine with Innovation and Technology

Boston, MA

### **Director, Innovation Platforms**

CIMIT is a consortium of the greater Boston area's premier clinical, research and academic institutions with a growing network of national and international affiliates (<a href="www.CIMIT.org">www.CIMIT.org</a>). Based at the Mass General Hospital, its mission is to improve patient care by facilitating collaboration among clinicians, engineers, and entrepreneurs to catalyze the discovery, development, and implementation of innovative technologies and procedures that improve patient care. John started as CIMIT's Chief Operating Officer, being responsible for delivering CIMIT's "Finding, Funding, Facilitation and Following" functions to supported teams. Over the years he led the development of web-enabled platforms that enabled the scaling of CIMIT's support to collaborators in implementing CIMIT's successful innovation model. He now focuses on supporting and growing the CIMIT network with the CRAASH, CoLab, and GAITS platforms.

2008 to Present Reed Collins LLC Lexington, MA

### **Chief Technology & Innovation Officer**

Technology, intellectual property, commercialization and business development consulting services for research teams, start-ups, IP law firms and risk capital organizations.

2002 to 2008 TIAX LLC Cambridge, MA

#### **President**

In close collaboration with CEO and owner, Dr. Kenan Sahin, formed TIAX from the Arthur D. Little T&I group. Established TIAX as a 150-person strong, privately held technology development and commercialization business, successfully blending services work for government and commercial clients with technology development and licensing. TIAX (<a href="www.TIAXLLC.com">www.TIAXLLC.com</a>) is a unique technology "transformation" organization focused in several core technology areas, including clean energy and materials, health and wellness, appliances and HVAC systems, and enhanced security. The World Economic Forum recognized TIAX as a Technology Pioneer in 2002 and as a New Champion in 2007.

Promoted to President in 2005 after having served as Executive Vice President since the company founding in 2002. In addition to an integral role in managing the transition and building a new business infrastructure, key accomplishments include attracting and hiring over 60 exceptionally qualified staff members, developing key technology platforms and intellectual property portfolios, and establishing several significant collaborative business relationships and licensing agreements.

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1999 to 2002 Arthur D Little, Inc Cambridge, MA

#### Senior Vice President, Technology & Innovation (T&I) Directorate

Reporting to the President and serving on the company's Executive Leadership Team, reestablished Arthur D. Little, Inc. (ADL) as a leader in technology consulting, linking strategy, innovation, and technology development. Architected and drove the turnaround of the technology business, reversing a declining revenue trend that persisted over several years to generate an average of ~20% annual growth. Successfully built a strong leadership team and focused the business on the integrated services of technology-based consulting, technology and product development, and intellectual property management. Grew the business to about 300 staff members and operated above target profitability levels (20% contribution margin). Drove a number of large commercial relationships that created significant success for clients. Board member of Cambridge Consultants Ltd. (a wholly owned subsidiary based in Cambridge U.K.), Nuvera Fuel Cells (an ADL spin-out with interests held by Gruppo De Nora and Amerada Hess, based in Cambridge, MA) and Strategic Food Solutions (a joint venture between ADL and TNO, the Netherlands research organization).

1996 to 1999 Arthur D Little, Inc Sydney, Australia

### Managing Director, Asia Pacific Management Consulting Directorate

Reporting to the President and serving on the company's Executive Leadership Team, restructured Arthur D. Little's Management Consulting business in Asia during the currency crisis of the late 90's. Aligned the offices in Sydney, Melbourne, Singapore, Tokyo, Seoul, Kuala Lumpur and Hong Kong to achieve services revenues of about \$30mm. Enabled the growth of ADL's three lines of business (Technology, Environment and Management Consulting) by expanding/extending relationships with multi-national corporations based in the US and Europe.

Initially, served as the Managing Director of the Sydney office and a member of the Asia Pacific Leadership team for two years before being promoted. In that time, opened an office in Melbourne and doubled the in-country revenues, returning the Australian operation to profitability, while also leading the expansion of the Technology & Innovation Management and the Organizational Learning practice across Asia Pacific.

1988 to 1996 Arthur D Little, Inc Cambridge, MA

### Vice President, Technology and Product Development

Joined Arthur D. Little, Inc. after completing Ph.D. to help establish the medical products group. Held a variety of positions of increasing responsibility while also maintaining an active hand in creating and managing engagements with clients. Created and implemented ADL's Product Development Process.

1982 to 1986 Booz, Allen & Hamilton Cleveland, Ohio

#### **Senior Consultant**

Held a variety of positions of increasing responsibility, transitioning from being a contributor in technology and strategy assignments to being a project leader.

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Education		
Ph.D. – MIT 1987 to 1988	Doctorate in Mechanical Engineering from Massachusetts Institute of Technology, with a concentration in fluid mechanics and heat/mass transfer. Minor concentration in Technology & Innovation Management.	
M.S. – MIT 1980 to 1982	Masters in Mechanical Engineering from Massachusetts Institute of Technology, with a concentration in fluids mechanics and heat/mass transfer. Minor concentration in Technology & Innovation Management.	
B.S. – RPI 1976 to 1980	Bachelors in Mechanical Engineering from Rensselaer Polytechnic Institute, with a minor in Economics. General Motors Scholar/Intern.	
Other		
Patents	Over 20 US patents, with numerous corresponding international patents (see below)	
Recent Publications	See below	
Security Clearance	DoD Top Secret (no longer active)	

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# John M. Collins, Ph.D. Issued US Patents

Patent Number	Date Issued	Title				
<b>Trocars for Minima</b>	Trocars for Minimally Invasive Surgery					
US5350364	09/27/1994	Universal seal for trocar assembly				
US5342315	08/30/1994	Trocar seal/protector assemblies				
US5314417	05/24/1994	Safety trocar				
US5209736	05/11/1993	Trocar method and apparatus				
US5197955	03/30/1993	Universal seal for trocar assembly				
Automated Fryer	T					
US5319939	06/14/1994	Frozen food storage and dispensing system				
US5230279	07/27/1993	Frying apparatus				
US5224415	07/06/1993	Frozen food storage and dispensing system				
US5305615	04/26/1994	Frozen food storage & dispensing system				
US5142968	09/01/1992	Automated deep fat fryer				
Blood/Fluid Warme		T				
US6047108	04/04/2000	Blood warming apparatus				
US5846224	12/08/1998	Container for use with blood warming apparatus				
Rug Cleaner	1					
US4712740	12/15/1987	Venturi spray nozzle for a cleaning device				
US4570856	02/18/1986	Liquid and detergent mixing chamber and valves				
Catalytic Coating Process						
US4550034	10/29/1985	Method of impregnating ceramic monolithic				
		structures with predetermined amounts of				
110400500	00/00/4000	catalyst				
US4609563	09/02/1986	Metered charge system for catalytic coating of a				
		substrate				
Erganomia Tabla						
Ergonomic Table	04/20/4007	A divistable segmentar worktable				
US4637322	01/20/1987	Adjustable computer worktable				
US4890561	01/02/1990	Extendable keyboard support assembly				
Tendon/ Ligament Repair						
US6106556	08/22/2000	Tendon and ligament repair system				
US6080192	06/27/2000	Tendon and ligament repair system				
US5800544		Tendon and ligament repair system				
033000344	09/01/1998	Tendon and ligament repair system				

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# John M. Collins, Ph.D. Recent Publications

### Accelerating the Healthcare Innovation Cycle

IEEE Pulse, December 3, 2013

A description of the CIMIT Model for stimulating and accelerating healthcare innovations into practice

### **Facilitating Translational Research**

Journal of Investigative Dermatology, May 1, 2015

An overview of the need for and CIMIT's approach to facilitating translational medical research.

### Deep Innovation in the Medical Domain a la Boston's CIMIT

Venture Findings #3, November 25, 2015

An overview of how the CIMIT Model supports innovation

## National Institute of Biomedical Imaging and Bioengineering Point-of-Care Technology Research Network: Advancing Precision Medicine

IEEE Journal of Transnational Engineering in Health and Medicine, August 16, 2016

This paper describes the Point-of-Care Technology Research Network and the three Centers funded by NIBIB as examples of academic-based organizations that support collaborations across disciplines, institutions, and geographic regions to successfully drive innovative solutions from concept to patient care.

# Healthcare Commercialization Programs: Improving the Efficiency of Translating Healthcare Innovations from Academia Into Practice IEEE Journal of Translational Engineering in Health and Medicine. September

IEEE Journal of Transnational Engineering in Health and Medicine, September 28, 2016

The article describes Healthcare Commercialization Programs (HCPs) which offer institutions and funders an additional option to improve the efficiency with which the healthcare projects translate into products and services that improve people's health. It describes programs such as CIMIT's CRAASH course that get teams out of the lab to interface with customers and stakeholders.

# Healthcare innovation methodology: codifying the process of translating knowledge into better healthcare products, services, and procedures

Current Opinion in Biomedical Engineering 2019, 11:16–21

This article provides an overview of the differences between research and innovation and discusses why treating them as distinct processes is important to help maximize the successful translation of research into population health benefits.

### The Role of CoLab and GAITS in Enabling the RADx Tech Program

IEEE Open Journal of Engineering in Medicine and Biology, VOL. 2, 2021, pages 199 to 124

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This article describes how two of CIMIT's Innovation platforms, GAITS and CoLab enabled the RADx program to rapidly mobilize the biomedical community in developing tests to detect the SARS-CoV-2 virus.

## RADx Tech Viability and Steering Panels: A Model for MedTech Translational Grant Review

IEEE Open Journal of Engineering in Medicine and Biology, VOL. 2, 2021, pages 125 to 130

This article describes how the highly experienced members of the RADx Tech Viability and Steering Panels worked in a process to "assess, improve, and then select" which resulted in improved timing, efficiency, and effectiveness of reviews.

### The RADx Tech Deep Dive and Work Package 1 Process

IEEE Open Journal of Engineering in Medicine and Biology, VOL. 2, 2021, pages 131 to 137

This article describes the novel Deep Dive and Work Package 1 phases of RADx Tech which enabled comprehensive project reviews and project de-risking at unprecedent speeds.

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### Prior Cases in which Dr. Collins Served as an Expert Witness As of February 2024

Parties	Case	Subject			
NJOY, INC., Petitioner,	IPR2014-01289 and	Electronic Cigarette			
vs.Fontem Holdings 1 B.V.,	IPR2014-01300	Electronic Cigarette			
Patent Owner.	11 1(2014-01300				
Fontem Holdings B.V., vs.	Consolidated Case	Electronic Cigarette			
NJOY, INC., et al.	No. CV 14-01645 GW	Liectionic Olgarette			
NJOT, INC., et al.	(MRW)				
Nu Mark LLC vs. Fontem	IPR2016-01773,	Electronic Cigarette			
Holdings 1, B.V.	IPR2016-01641,	Liectionic Olgarette			
Tioldings 1, b.v.	IPR2016-01664,				
	IPR2016-01707,				
	IPR2016-01706,				
	IPR2016-01705,				
	IPR2016-01668, and				
	IPR2016-01642				
Juul Labs, Inc vs. Eon Smoke	US ITC Investigation	Electronic Nicotine			
et. al.	No. 337-TA-1139 and	Delivery Systems			
ot. di.	No. 337-TA-1141	Delivery Cystems			
Below are Cases in the Last 4 Years					
Trudell Medical Int'l, Plaintiff,	Civil Action No.: 4:18-	Oscillating Positive			
vs. D R Burton Healthcare	cv-00008-H-KS	Pressure Respiratory			
LLC,		Devices			
C.R. Bard, Inc., et.al vs.	Case No.: 2:17-cv-	Vascular access ports			
Medical Components, Inc.	00754-HCN-DAO				
Fuma International, LLC vs.	Case Nos 1:19-cv-	Electronic Cigarettes			
RJ Reynolds Vapor	00260 and 1:19-cv-	_			
Company	00660				
Purewick Corp. vs. Sage	C.A No. 19-1508-MN	Urine Collection Device			
Products LLC					
Fisher & Paykel Healthcare	Case No. 8:19-CV-	Ventilatory Breathing			
Limited vs. Flexicare Inc., et	00835JVS (DFMx)	Tubes			
al.					
Altria Client Services LLC, et	Case No.: 1:20-cv-	Electronic Cigarettes			
al. vs. <b>R.J Reynolds Vapor</b>	00472-NCT-JLW				
Company, et al.	0 1 0 10 0 1	0 1 " 1			
The Travelers Property	Case No. 6:18-CV-	Condensation in			
Casualty Company of America	01728-JD	Lithium-Ion Battery			
vs. LG Chem Power, Inc., et		Packs			
al.	O N 04 O 04	FI ( ' O' "			
Inexian Corporation vs.	Case No. 24-C-21-	Electronic Cigarettes			
Venable LLP	000200	Figure 1 Deci			
Beijing Choice vs. Contec	Civil Action No. 1:18-	Fingertip Pulse			
Medical Systems	cv-00825 (NDIL)	Oximeters Madical Langets			
Facet Technologies LLC, vs.	Case No. 2:22-cv-	Medical Lancets			
Lifescan, Inc.	01717-MCS-MAR	Modical Langets			
Lifescan, Inc. vs. Facet	IPR2023-00712, and	Medical Lancets			
Technologies LLC.	IPR2023-00713				

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Note: I submitted expert reports and/or testified on behalf of the parties in bold.

Purewick Corp. vs. Sage	C.A. No. 22-102-MN-	Urine Collection Device
Products LLC	JLH	
C.R. Bard, Inc. and Bard	C.A. No. 20-1544	Vascular access ports
Peripheral Vascular, Inc. vs.	(CFC)	
Angiodynamics, Inc.		
Provisur Technologies Inc.	IPR2024-00235.	Food handling
vs. Weber Maschinenbau	IPR2024-00224	equipment
GMBH Breidenbach		
NJOY Netherlands BV vs.	UPC Case Numbers:	Electronic Cigarettes
VMR Products LLC.	ACT_571537/2023	
	(EP2875740),	
	ACT_571565/2023	
	(EP3456214),	
	ACT_571730/2023	
	(EP3613453), and	
	ACT_571745/2023	
	(EP3626092)	

February 2024 Note: I submitted expert reports and/or testified on behalf of the parties in bold. Page 2 of 2