

BioCatalyst

Professional Certificate Program

2015 Alumni Directory:
Medical Device, Biotech and
Quality Assurance certificates

business
oregon[®]



Oregon Bioscience
Association

For More Information

www.biocatalyst.org



Program Graduates

BioCatalyst Certificate Program

Since 2009, the Oregon Bioscience Association (Oregon Bio) has been offering a professional workforce training program (BioPro) designed to meet the needs of Oregon's growing bioscience industry. Since BioPro's inception, over 1,600 bioscience workers benefited from this program. Based on the guidance we receive from our Industry Steering Committee we have developed a robust catalog of industry specific classes taught by industry experts.

As highlighted above, BioPro and our new BioCatalyst program is built around the strength of our industry members and their direct input. In order to respond quickly to industry needs, the BioCatalyst program is managed by the BioPro Industry Steering Committee. This committee of industry human resource experts has been an integral part of the process of creating the BioCatalyst curriculum. The proposed certificates embody their commitment to industry driven training and their years of expertise.

Important Notice

Biographical information in this document is provided by the participants and is solely their responsibility.

The Oregon Bioscience Association does not endorse or vouch for any of this information.

Medical Device Foundations

Vidhya Ammaiyappan

Manjari Bagade (hired)

Tyler Campbell (hired)

Anne Carlson, Ph.D (hired)

Suvarchala Devi Pogula, Ph.D.

Emily Ediger (hired)

Lori Feigner (hired)

Chris Fronsoe (hired)

Gretchen Gauss (hired)

Kibrom Gebreab (hired)

Richard Hanberry

Giao Hang, Ph.D.

Ann Harris

Scott Holbrook, Ph.D.

Henry Kaiser (hired)

OM K Kalia

Laura Kubisiak (hired)

Narin Lim (hired)

Qing Lv

Todd MacClanathan (hired)

Lindsay Mangan

Cindy Millard (hired)

Dzuy Nguyen

Dewey Nigma

Kranthi Paladugu, Ph.D.

TQ (Tuan) Pham, Ph.D.

Thanh Phan

Lori Porter (hired)

Shanna Lisa Prusse

Herbert Respass (hired)

Kyle Robinson

Dayana Rodriguez-Contreras, Ph.D.

Ted Sebastian (hired)

Tony Shouse

Rachelle Stewart (hired)

Merve Tekmen-Clark, Ph.D. (hired)

Robert Wilmington (hired)

Madelaine Wright (hired)

Joyce Yamamoto, Ph.D.



Program Graduates

Biotech and/or Quality Assurance

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Jim Abbate (hired)

Linck Bergen

Denise Bishop

Christina Borland

Kat Brean

Wendy Campbell Parco (hired)

Kim Cardinali (hired)

Emily Charbonneau

Robert Copenhaver

Tanner Davies

Jackie Domire

Anna Dye (hired)

Shalini Gautam, Ph.D.

Gererdene Gibbons

Grant Gibson

Brad Hathaway

Pramod Jha (hired)

Michelle Jin

Caspar Kim (hired)

Sam Kuhn, Ph.D. (hired)

Olivia Longley

Karen Magnuson

Ahmed Marjan

Lisa Mayo (hired)

Aida Melendez

Chris Mellick

Conor Murtagh

Nghi Nguyen

Matt Olsen (hired)

Gurjit Palsaini

Laura Reese

Thomas Renner

Tom Rossiter

Samuel Ryan (hired)

Sunita Saini

Derek Scholin

Shelley Snyder

Edwin Stearns

Neil Storo

John Vareldzis

Martin Velazquez

Michael Veraz

Lulu Yang (hired)

Susan Zhao (hired)



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Cloud Computing in Bioscience

Padma Adoni

Kevin Baker

Veera Balakrishnan (hired)

Ernest Bonat, PhD (hired)

David Brossard

Mo Chen

Andy Doty

Brett Duvall

Ashley Fritz, PhD

Jake Gottfredson

Darrin Jackson (hired)

Ramesh Krishnan

Charles McAuley

Chris McClenaghan

Barbara Miller

Andrew Peggs (hired)

David Rardin

David Sheppard

Jim White

Alexander Williams



Graduate Biographies

Jim Abbate --- HIRED ---

Padma Adoni, Ph.D. has over 7 years of experience as a software QA specialist with additional expertise in chemistry and experience as an ASP.net developer. Created and executed testing plans for advanced software on multiple platforms, and developed internal UI applications in vb6 and ASP.net using C# and SQL databases.

Tools: Mercury tools, C#, VB6, SQL Server. ASP.net, HTML, Java, JavaScript, and Java servlets. Analytical chemistry with focus in polymers, resins, material science, and environmental chemistry.

Ph.D. (Polymer Chemistry), Bangalore University, India

LinkedIn: [/in/padmaadoni](#)

Vidhya Ammaiappan has extensive experience in molecular biology, DNA analysis and purification, and plant and animal tissue culture.

Tools: Lean Six Sigma Yellow Belt.

Cell biology and Immunology: Staining Techniques, Elisa, Immuno diffusion, Immuno electrophoresis, Phase contrast microscopy, Fluorescence microscopy.

Molecular biology and Genetic Engineering: Isolation and Purification of Plasmid DNA, DNA and RNA isolation, Transformation, PCR, RFLP, SSCP, SDS – PAGE, Agarose Gel Electrophoresis, Blotting techniques, Comet assay and Cloning Techniques.

Animal tissue culture: Aseptic culture, Isolation of cells, maintaining cells in culture, Manipulation of cultured cells, Maintenance of Cell Lines (Hep2 and HepG2), PI, DAPI, MTT, SRB and EtBr.

Microbiology: Growth Curves of Bacteria, Screening for antibiotic resistance, Staining Techniques, Production of Enzymes by Solid State Fermentation, Bacterial Cell Counting.

Protein purification: Chromatographic techniques, SDS-PAGE, Western Blot.

Plant biotechnology: Tissue Culture, Shoot Multiplication, Root Induction, Callus Culture, Organogenesis.

M.Sc. (Biotechnology), Periyar University, India

LinkedIn: [/in/vidhya1](#)

Manjari Bagade --- HIRED ---

Kevin Baker is a software engineer with years of experience at Intel, WebTrends and Syntel.

Tools C#, ASP .NET, jQuery, jQueryUI, Javascript, Applix TM1 SDK, z/OS DB2 Stored Procedures and inline SQL, IBM Data Studio. VB6 to C# conversion. TurboIntegrator, Cognos BI, TM DB2 Authentication Plugin, Linux, C/C++, Eclipse. IBM WebSphere, Java, Rational Application Developer, Eclipse, Apache Struts

LinkedIn: [/profile/view?id=8166583](#)

Veera Balakrishnan, Ph.D. is a data driven research neurologist with cloud computing experience and several published papers in Nature Neuroscience, JNS, Neuron and other journals.

Tools: HADOOP, C#, Java, Python, SAS, R, MS Visual Studio 2013, Eclipse, R-Studio, SQL Server 2008R2, MySQL, SQLite, UNIX/Solaris, SAS AS 9.x/8 (PC/UNIX), SAS/BASE, SAS.MACROS, SAS/ODS, SAS/GRAPH. SAS Enterprise Guide, Origin, Igor, SAS Certified Advanced Programmer for SAS9, SCRUM fundamentals certified.

Ph.D. (Neuroscience), University of Kaiserslautern, Germany

LinkedIn: [/in/sasveera](#)

Linck Bergen is returning to biology after 15 years of extraordinary success as a swim coach with the US National Swim Team. He is experienced in human and veterinary (equine) lab technique and physiological testing.

LinkedIn: [/pub/linck-bergen/ab/a92/960](#)

Ernest Bonat, Ph.D. --- HIRED ---

Christina Borland combines top-level academic research in genetics (7 published papers, post-doc at Michigan State) with work for startups. Her experience working in China gives her a working professional knowledge of Mandarin.

Ph.D. (Genetics), Yale University

LinkedIn: [/pub/christina-borland/b1/405/240/en](#)

Graduate Biographies (continued)

Kat Brean has done forensic chemistry for the Sweet Home Police Department, and lab work for the Red Cross, making her comfortable with legal process, chain of custody, lifting fingerprints and testing for bloodborne disease.

Tools: Preparation of molar solutions, GC/MS, AAS, FTIR, Pipettmen, UV-Vis spectrophotometer, centrifuge, TIGRIS, PRISM nEXT, TECAN and accurate record keeping.
Titrations: acid-base, EDTA, redox and precipitation titrations.
Crime-scene photography with Camera Raw 6.

B.A. (Forensic Chemistry), Western Oregon University
LinkedIn: [/pub/katherine-brean/a6/a87/527](#)

David Brossard is a Senior Systems Administrator with expertise in virtualization, Linux, and automated lifecycle development, DEV/QA and datacenter management experience.

Tools: Strong working knowledge of cloud systems such as Amazon AWS, Rackspace and CloudAtCost.Certified Systems Administrator in Solaris 9 and 10. Skilled in Unix with a strong understanding of Ubuntu/Debian and Redhat/CentOS Linux distributions. VMWare VSphere management. F5 BigIP Load Balancers, Xymon Monitoring and alerting including custom monitor scripts, SAN management and configuration. Implemented and deployed socket based application utilizing Apache Tomcat. EMC, Hitachi, Netapp & Storage.

LinkedIn: [/in/brossarddavid](#)

Tyler Campbell --- HIRED ---

Wendy Campbell Parco --- HIRED ---

Anne Carlson, Ph.D. --- HIRED ---

Emily Charbonneau is a biochemist with state of the art experience in sterile class II medical device manufacturing. She has presented a paper on her research into the extraction of biological products to inhibit germination. She is also a certified EMT and River Rescue Technician, and a state champion middle distance runner.

B. S. (Chemistry), University of Portland
LinkedIn: [/pub/emily-charbonneau/89/154/405](#)

Robert Copenhaver has an extraordinary record of scientific product development success -- Product Development Manager with Alpha-Tec Systems in Vancouver. Technology Development Manager at OHSU. Product manager for the Antibody Engineering group as a scientist at Boehringer Ingelheim Pharmaceuticals. Biotech consultant. IP licensing associate. 2 patents and a paper on tuberculosis published in Infection and Immunology.

MBA, University of Houston
M.S. (Molecular Pathology), University of Texas - Houston
LinkedIn: [/in/robopenhaver](#)

Tanner Davies is returning to bioscience proper after applying his Masters in Chemical Engineering as a master brewer with Gordon Biersch. Before that, he researched polymer-stabilized ferroelectric liquid crystals and the kinetics of thiolene photopolymerizations.

M.S. (Chemical Engineering), University of Maryland
LinkedIn: [/in/tannerdavies](#)

Suvarchala Devi Pogula, Ph.D. has 7 publications in peer-reviewed journals and extensive experience in the manufacturing and purification of human reproductive hormones, synthesis of peptides, colloids and nanoparticles, biosilification techniques, and research into cyanobacteria found at Yellowstone National Park. Also: experience in interdisciplinary fields such as material science engineering, biochemistry and microbiology.

Tools: Purification of recombinant proteins and enzymes, bacterial strain development, lab scale fermentation and downstream processing, enzyme activity measurement and strain development for production. Solid phase peptide synthesis. Microbiological assays. Biosilification protocol development in concert with sol gel technologies. 1 & 2-D SDS, Native Page, and Mascot search, UV and IR Spectroscopy and Circular Dichroism. Southern blot, western blot. Microbial culture maintenance and preservation. Strain development to increase metabolite production. Optimization methods for higher production of fermentation products. Characterization of biological products. Standardization of mosquito larvicidal studies and LC-50. Biological assays for HCG hormone.

Business software: SAS Clinical, SAP (sales and distribution).

Ph.D. (Biochemistry), Osmania Univ., Hyderabad, India
LinkedIn: [/pub/suvarchala-pogula/a3/340/3b5](#)

Graduate Biographies (continued)

Jackie Domire was Research Manager at Nationwide Children's Hospital in Ohio for four years before moving out to Portland, managing the translational research program in the Center for Gene Therapy. She has published two papers on neuronal cilia and a third on the inhibition of DUX4-induced muscle toxicity by RNA interference.

M.S. (Biomedical Sciences), Ohio State University
LinkedIn: [/pub/jacqueline-domire/43/a30/a74](#)

John Doty is a biomedical engineer with extensive data modeling experience and expertise in implantables, immune response, microfluidics and tissue engineering. Also experience in bioelectronics -- neural interface circuitry -- and prosthetics.

Tools: Computational software (Matlab, LabVIEW, PTE Creo C++ and Excel) to simulate data trials. QA: well versed in Lean Six Sigma. Experienced with bioelectronics circuitry, microfluidics pumps, and repair of various machines.

B. S. (Biomedical Engineering), Purdue Engineering School
LinkedIn: [pub/john-doty/94/4a3/580](#)

Brett Duvall has 15 years experience as a systems engineer and network administrator with expertise in security and datacenter design and management.

Tools: Microsoft Windows Server 2008 - 2012 R2 ♦ Exchange 2003 - 2010 ♦ SQL Server ♦ Hyper V ♦ VMWare ♦ Active Directory ♦ IIS ♦ DFS ♦ SCOM, DPM ♦ NLB ♦ Windows Clustering ♦ SAN ♦ Watchguard XTM ♦ Sonicwall ♦ Cisco ASA & Switches ♦ Barracuda ♦ Extensive LAN, Switching, Routing, VLAN, VPN ♦ SCADA Integration ♦ LIMS Integration

Computer Science (short of degree), Gonzaga University
LinkedIn: [/pub/brett-duvall/b/334/555](#)

Anna Dye --- HIRED ---

Emily Ediger --- HIRED ---

Lori Feigner --- HIRED ---

Ashley Fritz, Ph.D. is a chemical engineer and life science biomedical product developer with expertise in microfluidics and stem cells, and several published papers.

Tools: Computational software (Matlab, LabVIEW, PTE Creo C++ and Excel) to simulate data trials. QA: well versed in Lean Six Sigma. Experienced with bioelectronics circuitry, microfluidics pumps, and repair of various machines.

Ph.D. (Chemical Engineering), Univ. California at Berkeley
LinkedIn: [/in/alfritz](#)

Chris Fronsoe --- HIRED ---

Gretchen Gauss --- HIRED ---

Shalini Gautam, Ph.D. is an experienced process engineer (for Intel) and research associate (developed a commercial scale Specific Antibody Filter for transplants.) 4 published, peer-reviewed articles and 5 research presentations at international conferences. Intel divisional award for cost-saving process improvements.

Ph.D. (Biochemical Engineering), NJ Inst. of Technology
LinkedIn: [/pub/shalini-gautam/a/332/423](#)

Kibrom Gibreab --- HIRED ---

Gererdene Gibbons is a marketing professional specialized in medical devices, with years of experience as international marketing coordinator for a manufacturer of audiology testing equipment.

Tools: SAP software. Expert knowledge of international marketing and shipping, including shipping and customs issues, compliance with International trade regulations, certificates of conformity, ISO & EC requirements, carnets, international trade show protocols, and negotiating rep commissions.

B. S. (Business), University College, Dublin, Ireland
LinkedIn: [/in/gererdene/en](#)

Graduate Biographies (continued)

Jake Gottfredson is a patent lawyer with a degree in chemistry and experience as a Japanese - English interpreter. Experienced with patent-specific software including IPDAS, CPi, and Thomson Innovation.

B.S. (Chemistry), University of Utah

LinkedIn: [/in/jakegottfredson](https://www.linkedin.com/in/jakegottfredson)

Richard Hanberry adds a practical and varied range of experience, from business manager, to his masters-level training in molecular biology lab techniques. He has published 3 neuroscience posters at international meetings and congresses.

Tools: Statistical software (PRISM, SPSS, StatView), cannulation implant surgeries in rodents, tritiated DAMGO, densitometry, fluorescence and light microscopy, extensive IHC work, gas chromatography/mass spectrometry, high performance liquid chromatography.

M. Sc. (Biology), Georgia State University

LinkedIn: [/pub/richard-hanberry/12/455/6b3](https://pub.richard-hanberry/12/455/6b3)

Giao Hang, Ph.D. (pronounced “Yow Hong”) won the Ruth L. Kirschstein **National Research Service Award** from the NIH in 2012 and has published seven peer-reviewed papers in prominent journals such as *Cell* and *Neuroscience*. Her goal is “development of efficient tools and software for life science research and clinical applications.” Before moving to Portland, she did her post-doc research at the **Gladstone Institute for Neurological Disease** at the University of California – San Francisco.

Tools: Plexon OEM Lasers, Noldus video tracking & analysis, MedAssociates operant boxes, PCR. Software: Matlab, Igor Pro, MedAssociates Script, C++, Java, Pascal, Lisp. Speaks English, **Chinese (Mandarin and Cantonese)**, and Vietnamese. US citizen.

Ph.D. (Molecular and Cell Biology), Univ. Calif - Berkeley

LinkedIn: [/in/giaohang/](https://www.linkedin.com/in/giaohang/)

Scott Holbrook, Ph.D. has published **eight peer-reviewed papers** in journals such as *Cell* and the *Journal of Neuroscience* and has **extensive laboratory research**, training and teaching experience in **neurobiology and genetics**. He has just completed postdoctoral research at OHSU in *Drosophila* neurodegeneration.

Tools: primary neuron cell culture, immunohistofluorescence, confocal microscopy, and live imaging microdissections of neuronal tissue, embryonic microinjections of DNA, dsRNA, and various structure-related dyes, histological sectioning of tissue, DNA cloning and PCR, protein purification, Western blot, Electrophoretic Mobility Shift Assays, fruit fly husbandry and in-depth knowledge and practice of genetics.

Ph.D., Developmental Neurogenetics, Univ. of Oregon

LinkedIn: [/pub/scott-holbrook-ph-d/57/141/5aa](https://pub.scott-holbrook-ph-d/57/141/5aa)

Darrin Jackson --- HIRED ---

Pramod Jha --- HIRED ---

Michelle Jin has years of experience working as a lab technician in genetics, neurobiology, cloning, and protein biochemistry under FDA regulation.

Tools: Agarose and SDS protein gels.
Cloning: PCR, Minipreps, restriction enzymes, sequencing.
Protein Biochemistry: IP assays, GST-pulldowns. Fluorescence Resonance Energy Transfer (FRET)
Machinery: French Press, Autoclave Machines, Centrifuges
Drosophila: brain dissection, fly crossing, staining.
S. Cerevisiae: Transformations, tetrad analysis, protein extraction, microscopy
Cell Culture: Embryonic cell lines, human and mouse.
Maintenance, staining, flow cytometry and imaging.
Microscopy: fluorescence and immunostaining techniques

B.S. (Biology and Psychology), University of Oregon

LinkedIn: [/pub/michelle-jin/ab/414/4a4](https://pub/michelle-jin/ab/414/4a4)

Henry Kaiser --- HIRED ---

Caspar Kim --- HIRED ---

Ramesh Krishnan is a software development engineer with 19 years experience in C#, C++, and Java programming, including 7 years at Biotronik, and expertise in pacemaker, graphics/CAD and power management software.

**M.Sc. (Computer Integrated Manufacturing),
PSG College of Technology, Coimbatore, India**

LinkedIn: [/pub/ramesh-krishnan/6/177/587](https://pub/ramesh-krishnan/6/177/587)

Laura Kubisiak --- HIRED ---

Sam Kuhn, Ph.D. --- HIRED ---

Narin Lim --- HIRED ---

Graduate Biographies (continued)

Olivia Longley has worked as a Quality Engineer for JAE Oregon, Oligos, TE Connectivity and W.L. Gore.

Tools: CAPA, Gage R&R studies using Minitab and P-charts using Chart Runner, SCARs. Update APQP Control plan, pFMEA, flow charts, PPAP and RQAP documentation. Manage all OEI controlled quality system documents, analytical gel electrophoresis, mass spectroscopy and QC test records.

B.S. (Mechanical Engineering), California Polytechnic
LinkedIn: [/pub/olivia-longley/1/a95/757](#)

Qing Lv (pronounced "Ching Loo") has strong product development successes to join her impressive academic achievements (including 5 published papers). She successfully designed and fabricated a new type of biodegradable polymer/ceramic composite material for bone tissue regeneration at the University of Virginia. For Apex Biomedical, she has worked with a team to develop a new biomechanical testing and stimulating device (MATE system), and is in charge of product validation.

Tools: material characterization and analysis techniques such as GPC, UV-vis, DSC, TGA, SEM, XRD, EDX, HPLC, NMR, AFM, Instron. Mammalian cell culture, protein detection, immunostaining, confocal microscopy, fluorescence imaging, and small animal surgery. Computer programming in Visual Basic and Matlab.

Ph.D. (Chemical Engineering), University of Virginia
LinkedIn: [/pub/qing-lv/a/992/a5/en](#)

Todd MacClanathan --- HIRED ---

Karen Magnuson worked as Senior Procurement Officer at Welch Allyn, a medical device manufacturer, until they closed their Beaverton plant. She managed 22 suppliers, minimizing supply shortages and implementing a Lean plan to manage purchase of office supplies.

Tools: SAP enterprise software, Office applications.

B. A. (Business Administration), Linfield College
LinkedIn: [/pub/karen-magnuson/61/518/478/](#)

Lindsay Mangan has strong lab and field experience (including work in the Bering Sea) as a biological technician for Weyerhaeuser, Kingfisher Ecological and the Marine Resources Assessment Group. Her experience with careful data collection in rugged environments suits her well for QA/QC work.

Tools: GIS, ArcMap 10 and ArcCatalog data analysis, topographic maps and advanced GPS **Tools**, dichotomous key typing, remote acoustic microphone monitoring, databases,

B. S. (Biology), University of Minnesota Duluth
LinkedIn: [/pub/lindsay-mangan/a9/348/498](#)

Ahmed Marjan worked as a physician in Iraq for years before leaving the war-torn country for Qatar. There he was the clinical director of a busy, primary health care center and physician for 14 years. It's unlikely that any challenge at your facility would faze him.

He has extensive experience in research and advanced training in diabetes care from the University of Leicester, in England, Aarhus University in Denmark, and from the American Association of Clinical Endocrinologists. Marjan is a skilled administrator with experience with GCP and ICH regulations.

**MBCHB (Medicine & General Surgery),
Almustansria Univ., Baghdad, Iraq**
LinkedIn: [/pub/dr-ahmed-marjan/54/938/7a6](#)

Lisa Mayo --- HIRED ---

Charles McAuley is a senior software developer with extensive experience converting legacy C++ application to web architecture.

Tools: AngularJS, jQuery, ASP.Net MVC, Web API, C#, Bootstrap, CSS3, HTML5, Dependency Injection, LINQ, WPF, XAML, SQL Server, Unit testing, Mock frameworks, Telerik (Kendo) control suites.

**Mechanical Engineering Degree,
College of Technology, Dublin, Ireland**
LinkedIn: [/pub/charles-mcauley/55/37/7b5](#)

Chris McClenaghan is a senior enterprise software architect, consultant and developer with extensive experience in data center design and management, .

Tools: High level architecture design and consulting, Apache Tomcat application stack and Oracle RDBMS with the inclusion of some .Net components (catalog and edge integration. ETL, OOP, functional regression test suite development in Scala. Xcode, iOS, Objective C, Git.

M.Sc. (Computer Science), University of Kansas
LinkedIn: [/in/chrismcclenaghan](#)

Graduate Biographies (continued)

Aida Melendez managed a chemical plant manufacturing antibiotics as bulk powder for Schering-Plough in Puerto Rico. Before that, she was a QA Analytical Laboratory Supervisor responsible for FDA GMP, GLP, and safety and hygiene compliance. She is returning to the workforce after moving to Portland and raising her children. Ms. Melendez is on the Executive Committee of the American Chemical Society's Portland chapter,

Tools: High Performance Liquid Chromatography, Gas Chromatography, industrial scale organic chemistry synthesis, purification (chromatography) including ion-exchange columns, product spray drying processes. CAPA, FDA, EPA and OSHA Compliance -- cGMP and cGLP, Manufacturing Plant Performance & Product (API).

B.S. (Chemistry), University of Puerto Rico
LinkedIn: [/pub/aida-melendez/78/231/312](#)

Chris Mellick has many years of experience as a chemical engineer specializing in polymer chemistry, product development and QA including FDA, cGMP and ISO regulations. Working for Acrymed, Bayer Healthcare (Diabetes) and a vitamin manufacturer, he has created new products, scaled production up for product launches and for pilot production, managed laboratories to develop products and comply with regulations, and used SolidWorks 3D CAD to design custom parts for polymer modification and waste water treatment equipment.

Certifications: American Chemical Society (ACS), CAPM

B.S. (Chemistry), University of Portland
LinkedIn: [/pub/chris-mellick/66/47a/45a](#)

Cynthia Millard --- HIRED ---

Barbara Miller has extensive experience in FDA documentation of databases and software supporting regulatory drug/device applications (for Genentech), high level QA/QC work on the Firefox web browser, international experience in software, Linux system administration and open source software.

Tools: Node.js, Python, Marionette, Github and Git, Jekyll, Bugzilla, Mercurial, javascript mozmill, Google Refine / OpenRefine. SQL, shell scripting, Drupal, CiviCRM, and other Linux- Apache- MySQL- PHP CMS software.

Computer Science (short of degree), Yale University
LinkedIn: [/in/baramiller](#)

Conor Murtagh was a chemist / production supervisor for Optimize Technologies, a leader in the field of liquid chromatography. He was responsible for product development, quality assurance and streamlining production processes.

Previously, he worked for the European Patent Office, an environmental laboratory in Ireland, and Delft University (The Netherlands) where he researched extreme low-level semiconductor light detectors using molecular-beam epitaxy.

M.S. (Optoelectronics), Dublin City University, Ireland
LinkedIn: [/in/conormurtagh](#)

Dzuy Nguyen is a practicing Oregon attorney with patent experience as well as a production chemist with a patent and 10 published papers. After graduating from Reed with a B.A. in chemistry, he got a Masters in chemistry and a Juris Doctor degree from Widener School of Law.

M. Sci. (Chemistry), U. California - Santa Barbara

Dewey Nigma worked 16 years as Engineering Manager and Senior Manufacturing Manager at Welch Allyn until they recently closed their Beaverton plant. He formed a team designed solely for new product development and released to production WA's flagship platform product with 4 major enhancements.

Tools: CAPA, Lean, Six Sigma Black Belt, AAMI certifications: FDA Quality System Regulations, Process Validation, Design Controls and Process Validation. BOM Lifecycle Management.

B. S. (Industrial Management), Oregon Inst. of Technology
LinkedIn: [pub/dewey-nigma-beaverton-welchallyn/74/949/ba4/en](#)

Kranthi Paladugu, Ph.D. has been using his genetic expertise in his work as a manager at a plant nursery since moving to the U.S. in 2012, focused on tissue culture and quality control for ornamental plants. Before that, he was an Associate Professor of Medical Genetics at Narayana Medical College & Hospital in Nellore, India, a senior R&D scientist at a private company, and (for six years) a research associate at Michigan State University. Extensive supervisory, managerial, QA/QC and training experience. U.S. permanent resident.

Tools: Genomics, PCR, mutagenesis, sequence analysis, sequence alignment, editing, GLP, GMP, GCP compliance. Nucleic acid hybridization, SDS protein gels, enzyme assays, protein purification, marker vector construction, DNA sequence manipulation, plasmid manipulation, epigenetics.

Ph.D. (Plant Molecular Genetics), Univ. of Hyderabad, India
LinkedIn: [/pub/kranthi-kumar-paladugu/5/b3/902](#)

Graduate Biographies (continued)

Gurjit Palsaini works in quality control at Intel, inspecting and testing electronic parts, running the AOI (Automatic Optical Inspection), and working hands-on with the SMT, THT, and Oven rider. Earlier, he worked ten years teaching science in India.

M.S. (Physics), GNDU, Amritsar India

Andrew Peggs --- HIRED ---

TQ (Tuan) Pham, Ph.D. is an FDA regulatory specialist, a board-certified toxicologist (DABT) with extensive experience in FDA documentation and study management, as a Study Director for pharmacodynamic, pharmacokinetic, and toxicology studies (both GLP and non-GLP). This graduate of Central Catholic H.S. and Reed College has peer-reviewed publications in *Blood* and *Toxicologic Pathology*.

Tools: Preclinical protocol design consistent with regulatory guidelines for (Bio)Analytical Validation, ADME (pharmacokinetics, protein binding, CYP450 interaction, biodistribution, mass balance, metabolism), safety pharmacology (receptor hit profiling, hERG and ion channel inhibition, functional observation battery, respiratory assessment, cardiovascular assessment), and GLP toxicology (genotoxicity, reproductive toxicity, and rodent and NHP toxicity from acute to chronic administration). Current knowledge of Good Laboratory Practice and FDA/ICH regulatory guidelines, animal handling procedures and IACUC requirements. Winnonlin Pharmacokinetic/ Pharmacodynamic analysis/modeling. Molecular, immunology, and (bio)analytical assays.

Ph.D. (Microbiology & Immunology), University of Texas Medical Branch

LinkedIn: [/pub/tuan-pham/2b/194/716](https://pub/tuan-pham/2b/194/716)

Thanh Phan has 6 years of experience as a clinical lab technician working for the American Red Cross. He is looking to move into management while continuing to develop his laboratory skills.

B.S., San Jose State University

Lori Porter --- HIRED ---

Shanna Lisa Prusse brings an extraordinary range of managerial experience to bioscience; R&D operations manager, clinical director, development, medical billing and scheduling, auditing and financial analysis. She has advanced training in health care administration and computer science, in addition to her neuroscience degree.

Tools: E-scripts, EMR and billing, web development, budgeting, sales forecasting and revenue projection.

B.S. (Neuroscience), Regis University

LinkedIn: [/pub/shanna-lisa-prusse/11/228/a46/](https://pub/shanna-lisa-prusse/11/228/a46/)

Laura Reese has five years experience as a microbiology laboratory assistant, during which she developed a novel drosophila line for use in Alzheimer's research.

Tools: DNA cloning, PCR, gel electrophoresis, Western Blot procedure and analysis, transmission electron microscopy including sample preparation, ultramicrotome operation, microscope operation, and dark room slide development. Drosophila salivary gland dissection and staining.

B.S. (Biology), Portland State University

Thomas Renner worked as a QA/RA Manager for Electrical Geodesics in Eugene for many years. Most recently, as Quality, Efficiency and Regulatory Affairs Manager, he supervised a team of 5 QA engineers, a senior regulatory affairs engineer, and a technical writer.

Tools: Implemented tools and procedures for agile, iterative engineering design with transparency, traceability, defect root cause analysis, and digital signatures (21 CFR Part 11) under the ISO 13485- and ISO 14971-compliant quality system • Refactored design, CAPA, complaint, RMA, risk management, advisory notice, and document control processes to meet evolving company needs and regulations • Managed certification and annual surveillance audits under ISO 13485:2012, ISO 13485:2003, CMDCAS, and 93/42/EEC.

B.S. (Science and Engineering), Cal-Tech, Pasadena

LinkedIn: [/in/tomsrenner](https://in/tomsrenner)

Herbert Respass --- HIRED ---

Graduate Biographies (continued)

Kyle Robinson is an entrepreneurial and data oriented researching neuroscientist with sales, marketing and regulatory experience.

Tools: Computer programming in Python and VBA; Noldus Ethovision, RapidMiner, MatLab, SPSS. Coursework in bioscience entrepreneurship, statistics for scientists, financial accounting, managerial accounting, entrepreneurial management, business modeling, business computing, and business law.

BS (Industrial Technology), University of North Texas
LinkedIn: [/pub/kyle-robinson/60/a33/23b/en](#)

Dayana Rodriguez-Contreras, Ph.D. is a microbiologist with a stellar career in academic research including 14 published papers and years as a Research Assistant Professor at OHSU. She was in charge of research for the Department of Molecular Microbiology and Immunology.

Tools: Molecular cloning, genomic DNA and plasmid purification, primer design, DNA sequencing analysis, gene knockouts in protozoa, PCR, RNA isolation, cDNA synthesis, recombinant protein expression using E. coli and baculovirus expression system, SDS-PAGE, IEF, affinity chromatography, immunoassay methods (including ELISA and western blotting), phase contrast and fluorescent light microscopy. Eukaryotic gene expression, including RNA synthesis. Fluent in Spanish.

**Ph.D. (Biomedical Research),
National Autonomous University of Mexico**

Samuel Ryan --- HIRED ---

Sunita Saini works as a QC tester and assembler for Anthro Technology Furniture. Before emigrating to the U.S she worked as an assistant science instructor in India for 7 years.

B.Com. (Commerce, Accounting), GNDU, Amritsar, India
LinkedIn: [/pub/sunita-saini/b6/901/772](#)

Derek Scholin is an experienced production and research botanist, with three years experience at Diana Plant Sciences in every capacity from research to GMP compliance. Lead team member on production processes, streamlining for cost savings and efficiency.

B.S. (Botany), California State - Chico
LinkedIn: [/in/derekscholin](#)

Ted Sebastian --- HIRED ---

David Sheppard is a product launch and development marketing specialist. He has many years of experience as the Director of Product Marketing and Development Marketing at a series of innovative medical device and medical services companies.

Tools: Professional coursework in Biostatistics, TQM, Building Market-Focused Organizations (creating superior value delivery systems), Miller-Heiman Strategic Selling, Crossing the Chasm (exploiting the technology adoption process), Creating Customer Advocacy (targeting and commanding market segments), Conducting Customer Visits (staging qualitative research of customer needs), project management, product planning & management.

B.S. (Electrical Engineering), Duke University
LinkedIn:

Edwin Stearns is experienced as a chemical engineer and documentation engineer with Romtec, Inc. in Roseburg. There, he designed chemical treatments for small water treatment skids and created a preliminary design for a lift station.

B.S. (Biological Engineering), Oregon State University
LinkedIn: [/in/Stearnsedwin](#)

Rachelle Stewart --- HIRED ---

Neil Storo has worked with firefighting crews for years, Loading fire retardant onto a variety of firefighting aircraft, performing maintenance on pumps and piping systems, and managing up to four other individuals while loading aircraft. He was responsible for making sure that OSHA guidelines were met at workplace and held daily safety briefings.

LinkedIn: [pub/neil-storo/ab/482/3b3/en](#)

Mervé Tekmen-Clark, Ph.D.-- HIRED --

John Vareldzis is a civil engineer and a Procurement and Supply Chain specialist, with years of management work in the field for Intel and the Bonneville Power Administration.

Tools: Lean Six Sigma Yellow Belt. ISCEA-Certified Supply Chain Analyst. EIT Certification -- American Society of Civil Engineers.

B. S. (Civil Engineering), University of Portland
LinkedIn: [/in/johnvareldzis/en](#)

Graduate Biographies (continued)

Michael Veraz has exceptionally well-rounded, high level experience with 4 years in **pharmaceutical product development and quality assurance**, five years of high-level academic research focused on **AAV-delivered CRISPR/Cas9 genetic modifications**, and two years each in sales and teaching. He has worked for industry as a QC Chemist, Analytical Chemist, Bioprocess Engineer and Research Associate in addition to his academic research (two published posters and a peer-reviewed article).

Tools: CRISPR/Cas9-mediated genome editing, murine gene therapy administration, surgeries, necropsy, tissue molecular analysis, DNA extraction, Sanger sequencing data interpretation, plasmid cloning, PCR, RNA isolation, qRT-PCR, AAV vector production, bacterial and mammalian cell culture, DNA transfection, immunohistochemistry (fluorescence and enzymatic), mass spectrometry, HPLC, FPLC, gas chromatography, ELISAs, bioreactor operation, radioimmunoassays, SDS-PAGE, Western blot, stereotaxic surgeries, behavioral phenotype assays. Adobe Creative Suite.

Ph.D. (incomplete), Molecular & Medical Genetics, OHSU M.S. (Cell & Molecular Biology), San Francisco State Univ.
LinkedIn: [/in/michaelveraz](#)

Jim White has many years of experience in network administration and technical support on a variety of platforms.

Tools: VMWare products (vCloud, vmWare Fusion, vSphere, including Hypervisor, etc.), Microsoft Hyper-V, VirtualPC, RemoteDesktop, Intel Directed I/O, Oracle VirtualBox, IAAS, PAAS, and SAAS solutions. TCP/IP and OSI (Open Systems Interconnection) 7 layer model, frame relays/VPNs, subnet (Class C) configuration for Cisco/Linksys routers, IP multicasting, C/C++/Java programming. PHP, MySQL, Ajax, Json.

A.A.Sc. (Computer Technology), Heald College

Alexander Williams is an experienced systems engineer and network administrator with particular expertise in cloud computing.

Tools: Software Development (JIRA and Confluence), Server Management (Local and Cloud): Provisioning, VMware, Vsphere, ESX, Citrix XenApp/Xenserver, Physical to Virtual provisioning, Blackberry Enterprise Servers. Monitoring Tools: Cactii, IPmonitor, Xymon, Advanced troubleshooting, Root cause analysis. Network Management: LAN, VLAN, WLAN, VPN, Router/Firewall(Cisco UC, ESW, Sonicwall). Financial Systems: Bloomberg, APX, Zephyr, KWI reporting, Peachtree. VOIP: Asterisk, PBX, Cisco UC/ESW phone systems.

B.SC. (Health Sciences --pre-med), Boston University
LinkedIn: [/in/williamsac](#)

Robert Wilmington --- HIRED ---

Madelaine Wright --- HIRED ---

Joyce Yamamoto, Ph.D. was, before recently moving to Portland, a Senior Principal Scientist and Research Manager at Medtronic's Energy and Component Center in Minnesota. She has extensive experience in Research and Product Development of implantable medical components, in QA (leading two global CAPA projects that closed with high effectiveness outcomes), in project management of cross-functional, multi-site, multi-cultural research and product development projects, and in Intellectual Property (with 25 patents issued, 46 submitted and ten years of experience on Medtronic's Patent Review Board). 21 technical publications.

Tools: Software -- eCATS (contracts), Cardinal (IP), Trackwise (CAPA), Sopheon (product portfolio), SolidWorks7 AutoCAD, ProE viewers, MS Office. Business metrics -- ROI, NPV, COGS Risk Management -- FMEA, PFMEA, FTA, risk burndown. EMI filtering technologies: chip & discoidal capacitors Component performance evaluations, immersion, electrical, hermetic, mechanical testing. Hermetic sealing technologies: Glass-metal, Au braze design, process and characterization

Medical RF telemetry antennas: MICS/MEDS bands and 900MHz Materials characterization techniques: microscopy (optical, electron, X-ray), thermomechanical, electrical, mechanical Materials processing: powder processing, controlled atmosphere thermal processing, tape casting Field emission flat panel display: invisible anode/ cathode spacer material science Cofire ceramic systems for automotive sensors and RF antenna applications.

Ph.D. (Solid State Science), Pennsylvania State Univ.
LinkedIn: [/in/joyceyamamoto/](#)

Lulu Yang --- HIRED ---

Susan Zhao --- HIRED ---



BioCatalyst Training

Other Certificates

- Quality Assurance
- Pharma Foundations
- Manufacturing
- Medical Software
- Circuit Board Foundations

About BioCatalyst Partners

Oregon Bio would like to acknowledge the support our programs have received from our training partner at Worksystems Inc. Together we have developed a successful program that is highly respected and utilized by our industry members.

We believe, working in conjunction with workforce partners, Oregon can lead the way in establishing these unique public/private, industry-based bioscience training programs.

COURSE DESCRIPTIONS: Medical Device Foundations Certificate

DESIGN OF EXPERIMENTS

Overview: Today's highly competitive environment leaves no time for trial and error. The Design of Experiments (DOE) course provides a structured method for determining the relationship between factors affecting a process and the output of that process. With this information, you can quickly develop the optimum balance between factors leading to dramatic improvements in quality, cost, and productivity. Participants In this twenty four hour course will gain a firm understanding of the statistical concepts and basic principles underlying Design of Experiments.

PROJECT MANAGEMENT

Overview: This course introduces students to the foundations of successful project management, especially in a technology environment. Students will learn key project management concepts, then immediately apply them in a hands-on team simulation. This course approaches project management from the standpoint of managing a single, stand-alone project that is small to medium in size. The class takes students through the project life cycle in the same sequence they would face when managing a real project in the workplace.

OVERVIEW OF FDA

Overview: The FDA has more power to affect regulated companies than almost any other organization, yet many people don't understand it. Many others ignore it as much as possible. But the FDA affects the job of every person in a medical device or drug company. This course is designed to provide participants with insight into what the regulations are, why they exist, how they fit together, when they apply, and how to interpret them. We will not just discuss Quality Systems and Good Manufacturing Practices, but also submissions, registration, clinical trials, recalls, and adverse event reporting. Each participant will develop a better understanding of the environment in which their company exists and how they can help their company thrive.

QUALITY SYSTEMS OVERVIEW

Overview: Quality Systems (QS) are sometimes viewed as a necessary evil or belonging only to production and quality assurance personnel. However, effective QS can help a business not only comply, but excel. This course focuses on medical device companies and how to create, implement, and improve QS that match your company. Both FDA QS and ISO QS will be discussed.

We will also cover: how different departments are impacted by QS, the biggest pitfalls in establishing and maintaining QS, and how to critically evaluate your QS.

There will be group exercises and lots of interaction among participants to provide multiple options. In QS, it is definitely true that one size does not fit all!

DESIGN CONTROL

Overview: Design Controls have been an FDA requirement for most medical device manufacturers since June 1998, but many still struggle with effective compliance. Design Control is the FDA term for how a medical device manufacturer controls the design, development, and manufacturing of its products. ISO 13485 uses the term "product realization" to describe these activities. In addition to the design and testing of devices, engineers must also focus on ensuring that all of the necessary documentation is in place to demonstrate compliance with Design Controls. This documentation can amount to several hundred pages or more for a single product launch.

STATISTICAL PROCESS CONTROL

Overview: The key to improving process performance is the ability to understand, control and reduce variation. In this workshop, participants will learn how the monitoring and analysis tools of SPC can be used to achieve that goal. Going beyond the mere mechanics of SPC, this workshop will also guide participants through the steps needed to define a process and determine proper measurement techniques so that the right control chart is used in the right place at the right time.

FMEA DESIGN OR PROCESS

Overview: This course provides a structured guide to the process of performing an effective Failure Mode and Effects Analysis for Design and Development (DFMEA). DFMEA can be performed during design and development on products to minimize risks and future costs of new products. It is also a highly effective technique to use in planning under any quality management system standard, such as ISO 9001 and ISO 13485.

PROBLEM SOLVING FOR CORRECTIVE AND PREVENTATIVE ACTION

Overview: Whether communicating with your co-workers, your boss, or upper level management, get your message heard in a clear, concise and compelling manner. In this four hour interactive business communication course, we will provide you necessary verbal, non-verbal and written tools to help you to communicate more effectively, and promote a respectful working environment.



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www.biocatalyst.org