

# Application Form

## Profile

Alexandria

First Name

Lanier

Last Name

Middle Initial

Home Address

Suite or Apt

Antioch

City

CA

State

94509

Postal Code

Primary Phone

Email Address

### [District Locator Tool](#)

#### Resident of Supervisorial District:

District 3

Lawrence Livermore National  
Lab

Employer

Chemical Inventory Analyst

Job Title

#### Length of Employment

4.5 years

#### Do you work in Contra Costa County?

Yes  No

#### If Yes, in which District do you work?

Alameda Conty

#### How long have you lived or worked in Contra Costa County?

22+ years

#### Are you a veteran of the U.S. Armed Forces?

Yes  No

## Board and Interest

#### Which Boards would you like to apply for?

Hazardous Materials Commission: Submitted

**Seat Name**

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Environmental Justice Alternate Seat

**Have you ever attended a meeting of the advisory board for which you are applying?**

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Yes  No

**If Yes, how many meetings have you attended?**

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**Education**

**Select the option that applies to your high school education \***

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High School Diploma

**College/ University A**

**Name of College Attended**

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Dominican University of CA

**Degree Type / Course of Study / Major**

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BS Cell and Molecular Biology

**Degree Awarded?**

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Yes  No

**College/ University B**

**Name of College Attended**

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UCSD/SDSU

**Degree Type / Course of Study / Major**

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PhD Molecular Biology

**Degree Awarded?**

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Yes  No

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**College/ University C**

**Name of College Attended**

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**Degree Type / Course of Study / Major**

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**Degree Awarded?**

Yes  No

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**Other Trainings & Occupational Licenses**

**Other Training A**

California Hazardous Waste Mgt

**Certificate Awarded for Training?**

Yes  No

**Other Training B**

**Certificate Awarded for Training?**

Yes  No

**Occupational Licenses Completed:**

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**Qualifications and Volunteer Experience**

**Please explain why you would like to serve on this particular board, committee, or commission.**

I have a special interest in hazardous waste generation and storage accumulation. I grew up in Antioch which is a town covered under district 3 and I have an interest in participating in keeping our community and neighboring communities safe. Although my educational background is in biology I have 5 years of environmental safety work and have only continued to expand my interest. I have found that being experienced both at the bench, in the field and continuing to learn and support regulatory requirements makes me a well-rounded candidate.

**Describe your qualifications for this appointment. (NOTE: you may also include a copy of your resume with this application)**

I have a Bachelors of Science in Biology and have performed 6+ years of bench top research resulting in a few publications. This has afforded me the experience in generating and understanding how to interpret results from assays. I have 5 years of experience in chemical management for a large government funded lab (LLNL) and 2 years of experience with regulatory reporting and the CUPA. My resume is attached with this application and I am open to answering any questions regarding my previous research and current employment.

Upload a Resume

**Would you like to be considered for appointment to other advisory bodies for which you may be qualified?**

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Yes  No

**Do you have any obligations that might affect your attendance at scheduled meetings?**

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Yes  No

**If Yes, please explain:**

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**Are you currently or have you ever been appointed to a Contra Costa County advisory board?**

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Yes  No

**If Yes, please list the Contra Costa County advisory board(s) on which you are currently serving:**

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**If Yes, please also list the Contra Costa County advisory board(s) on which you have previously served:**

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**List any volunteer or community experience, including any advisory boards on which you have served.**

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I have served on the Institutional Biosafety Committee with San Diego State University in 2017

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### **Conflict of Interest and Certification**

**Do you have a familial or financial relationship with a member of the Board of Supervisors? (Please refer to the relationships listed under the "Important Information" section below or Resolution No. 2021/234)**

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Yes  No

**If Yes, please identify the nature of the relationship:**

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**Do you have any financial relationships with the County such as grants, contracts, or other economic relationships?**

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Yes  No

**If Yes, please identify the nature of the relationship:**

**Please Agree with the Following Statement**

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**I CERTIFY that the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge and understand that all information in this application is publicly accessible. I understand that misstatements and/or omissions of material fact may cause forfeiture of my rights to serve on a board, committee, or commission in Contra Costa County.**

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I Agree

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Important Information

1. This application and any attachments you provide to it is a public document and is subject to the California Public Records Act (CA Government Code §6250-6270).
2. All members of appointed bodies are required to take the advisory body training provided by Contra Costa County.
3. Members of certain boards, commissions, and committees may be required to: (1) file a Statement of Economic Interest Form also known as a Form 700, and (2) complete the State Ethics Training Course as required by AB 1234.
4. Meetings may be held in various locations and some locations may not be accessible by public transportation.
5. Meeting dates and times are subject to change and may occur up to two (2) days per month.
6. Some boards, committees, or commissions may assign members to subcommittees or work groups which may require an additional commitment of time.
7. As indicated in Board Resolution 2021/234, a person will not be eligible for appointment if he/she is related to a Board of Supervisors' member in any of the following relationships:
  - (1) Mother, father, son, and daughter;
  - (2) Brother, sister, grandmother, grandfather, grandson, and granddaughter;
  - (3) Husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepson, and stepdaughter;
  - (4) Registered domestic partner, pursuant to California Family Code section 297;
  - (5) The relatives, as defined in 1 and 2 above, for a registered domestic partner;
  - (6) Any person with whom a Board Member shares a financial interest as defined in the Political Reform Act (Gov't Code §87103, Financial Interest), such as a business partner or business associate.

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## EDUCATION

- ❖ *San Diego State University joint program with University of California, San Diego* (08/2013 - 12/2017) no degree awarded  
San Diego CA
  - o Pursued Joint Doctoral Program in Cell and Molecular Biology with UCSD
  - o San Diego State University coursework: Advanced Topics in Molecular Biology, Ethics in Biology, and Laboratory Projects in Biology UC San Diego coursework: Genetics, Cell and Molecular Biology, Developmental Biology, Concepts in Stem Cell Biology \*Overall GPA: 3.65
- ❖ *Ferris State University* (08/2011 - 05/2013)  
Big Rapids MI
  - o Post-baccalaureate courses: General Physics II, Principles of Nutrition, Medical Terminology, Public Health Administration \*Final GPA: 3.2
- ❖ *Dominican University of California* (08/2007 - 05/2011)  
San Rafael CA
  - o *Awarded Degree: Bachelor of Science Molecular and Cell Biology*
  - o Science courses completed: Organismal Biology, Cell and Developmental Biology, Genetics, Ecology and Evolution, Comparative Anatomy, Animal Physiology, Advanced Microbiology, Molecular Cell Biotechnology, Advanced Cell Biology, General Chemistry, Organic Chemistry, Biochemistry, General Physics I, Geographic Information Systems \*Final GPA: 3.32

## SPECIFIC JOB TRAINING/QUALIFICATIONS

- ❖ U.S. Department of Energy Q-level Security Clearance - Expires February 27, 2024
- ❖ LLNL LTRAIN Coursework - Total of 80 unique courses completed. Refresher training current.
  - o Courses topics include LLNL Procedure, Safety Education & Training, Security, Training and Development and OMBUDS.
- ❖ RCRA California Hazardous Waste Management Training February 2019
  - o Lion Technology Inc. (973-383-0800) Member Pin: 7121281
  - o 1.4 CEUs, NEHA Authorized CE Contract Hours: 14
- ❖ National Institutes of Health Office of Extramural Research
  - o Protecting Human Research Participants Certification number: 2343092
- ❖ Collaborative Institutional Training Initiative (CITI Program)
  - o Animal Care and Use - Laboratory Animal Work Stage 1 Expires 08/2019
  - o IBC Member Stage 1 - Basic Course Expires 07/2020
  - o Human Subjects Research (HSR) IBR Member Stage 1- Basic Course Expires 09/2020

## MEMBERSHIPS, HONORS AND AWARDS

- ❖ Gold Award - Lawrence Livermore National Lab FY2020

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- o Conversion of XREF to paperless system
- ❖ Institutional Biosafety Committee - Voting Member (04/2017-08/2017)
  - o University Research Council, Graduate and Research Affairs SDSU
- ❖ Rees-Stealy Research Foundation/SDSU Heart Institute (10/2016-12/2017)
  - o Awarded at San Diego State University working with Dr. Mark Sussman
- ❖ Foundation Ledqcu Participant under Dr. Mark Sussman (09/2014-12/2017)
  - o Transatlantic Networks of Excellence Program: [Cellular and Molecular Targets to Promote Therapeutic Cardiac Regeneration](http://cardiostemnet.com/) <http://cardiostemnet.com/>
- ❖ *National Institute of Health Post-Baccalaureate Research Fellow* (08/2011-06/2013)
  - o Awarded at Ferris State University working with Dr. James Hoerter
- ❖ *Genetic Society of America Member* (2012-2013)
  - o Membership to increase networking skills and obtain access to scientific publications.
- ❖ *Beta Beta Beta National Biology Honors Society* (2009-2011)
  - o Awarded through Dominican University of California

## RESEARCH AND PROFESSIONAL EXPERIENCE

### ❖ **Lawrence Livermore National Laboratory (2018 - current)**

- o Chemical Inventory Analyst (TSS.2), ChemTrack, ES&H, O&B (November 2021 - current)
- o Senior Technical Coordinator (538.3), ChemTrack, ES&H, Director's Office (2020-2021)
- o SDS Technical Coordinator (538.2) ChemTrack, ES&H, Director's Office (2018-2020)

Review S200 and S300 chemical inventory data to ensure regulatory compliance. Participate in annual chemical inventory field work. Perform SDS data entry, validation, and troubleshooting data issues. Manage Chemical Purchase Notifications (CPN) and approvals including interacting with TRRs. Train new TRRs, receiving personnel and new ChemTrack members on applications specific to our group. Collaborate with IT to convert existing Oracle applications into new Angular software versions and thoroughly test and troubleshoot development and design. Generate, compile and report chemical inventory amendments to county regulators monthly. Assist group leader on various projects and routine tasks. Lead ChemTrack training program.

### ❖ **Graduate Student - San Diego State University (2013 - 2017)**

- o Identification of cardiac stem cells (CSCs) with cardiomyogenic potential remains ambiguous due to heterogeneity within the population. This study explores the complex biology of CSC lineages by expression of c-Kit, PDGFR $\alpha$  and PW1. c-Kit<sup>+</sup>/PDGFR $\alpha$ <sup>neg</sup> and c-Kit<sup>+</sup>/PW1<sup>neg</sup> sub-populations will be

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characterized with the goal of excluding fibroblast (PDGFR $\alpha^+$ ) and vascular (PW1 $^+$ ) lineages to augment cardiomyogenic potential.

✓ *This project involved being Point of Contact for human patient samples including patient history collection. Completed required HIPAA training to maintain database.*

- o Rotations with the following laboratories:
  - Kathleen McGuire - The role of cytoskeletal remodeling, extracellular matrix, and cell adhesion in prostate cancer development and racial disparities.
  - Christopher Glembotski - Elucidating the molecular mechanisms of heart disease through endoplasmic reticulum stress.
- o Research techniques: primary human cell line isolation, cell culture, immunoblotting, qRT-PCR immunostaining, immunofluorescence, flow cytometry, confocal microscopy, and live imaging.
- ❖ **Research Assistant - Ferris State University (2011 - 2013)**
  - o Grant/Project Title: Effects of Ultraviolet Light Radiation on Melanocyte Regeneration and Incidence of Melanocytic Tumors in Zebrafish Fins After Regeneration
  - o Description of research: Using the zebrafish model organism for melanoma, determine the effects of UVA upon melanocyte stem cells and pigment pattern formation. The goal of the lab is to develop an in vivo melanoma tumor model utilizing the model organism.
  - o Research techniques: Zebrafish husbandry, Animal Care protocols, UVA/UVB radiation, melanocyte stem cell manipulation, florescent microscope, imaging with dissecting microscope and use of QCapture Pro Program, amputation of zebrafish fins, and regulation of epimorphic regeneration.
- ❖ **Undergraduate Research Student - Dominican University of California (2009 - 2011)**
  - o Biology Research and Methodology Course: Skin Tissue Culture Lab
  - o Description of research: Learn the associated techniques with tissue culture and skin cell lines.
  - o Research techniques: tissue culture maintenance, harvesting and sub-culturing, cell maintenance protocols (counting, plating, treating), staining, and immunohistochemistry.

## PUBLICATIONS

- ❖ Monsanto M, White K, Kim T, Fischer K, Ilves K, Khalafalla F, Casillas A, Broughton K, Mohsin S, Sussman MA. Concurrent Isolation of Three Distinct Cardiac Stem Cell Populations from a Single Human Heart Biopsy. *Circulation Research* 2017 Jul 7;121(2):113-124. doi: 10.1161/CIRCRESAHA.116.310494. Epub 2017 Apr 26.
- ❖ Völkers M, Doroudgar S, Quijada P, Konstandin M, Ilves K, Broughton K, Khalafalla F, Casillas A, Nguyen K, Gude N, Toko H, Ornelas L, Thuerlauf D, Glembotski CC, Sussman MA. S100A4 protects the myocardium against ischemic stress. *Journal of Molecular and Cellular Cardiology* 2016 Nov; 100:54-63. doi: 10.1016/j.yjmcc.2016.10.001. Epub 2016 Oct 6.



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- ❖ Hoerter JD, Bradley P, Casillas A, Chambers D, Denholm C, Johnson K, Weiswasser B. Extrafollicular dermal melanocyte stem cells and melanoma. Stem Cells International 2012:407079 doi: 10.1155/2012/407079
- ❖ Hoerter JD, Bradley P, Casillas A, Chambers D, Weiswasser B, Clements L, Gilbert S, Jiao A. Does Melanoma Begin in a Melanocyte Stem Cell? Journal of Skin Cancer. 2012:571087 doi:10.1155/2012/571087.

## CONFERENCES ATTENDED

- ❖ 25th California Unified Program Annual Training Conference 3/20-23/2023
  - o Scheduled to attend. Session participation will be updated after attendance.
- ❖ Annual Biomedical Research Conference for Minority Students 11/9-12/2011
  - o conference theme “increasing diversity to improve global and scientific competitiveness.”
- ❖ Model Organisms to Human Biology – Cancer Genetics 06/17-20/2012
  - o This conference allowed me to hear cutting edge research that is being performed in collaboration between model organisms and humans.

## TEACHING EXPERIENCE

- ❖ San Diego State University 08/2013 – 12/2016
  - o Teaching Assistant Human Anatomy (BIO 212) Supervisor: Sandra Garver
  - o Duties: Teach lab section of BIO 212 Human Anatomy, supervise and assign duties to undergraduate teaching assistants and grade course exams.
- ❖ Mad Science of Mount Diablo, Concord, Ca 02/2010 – 07/2011
  - o Mad Scientist instructor Supervisor: Kate Merlone
  - o Duties: teach experimental science education programs for elementary to middle school in the classroom, assemblies, after-school programs and summer camps.

## VOLUNTEER WORK

- ❖ Volunteer with Susan B. Wheatlake Cancer Center 01/2012 – 06/2013
  - o Assist cancer patients, family and friends of patients in obtaining the information they need regarding their diagnosis and provide a welcoming and comfortable atmosphere that promotes cancer awareness, wellness and education.

## ADDITIONAL PREVIOUS EMPLOYMENT THAT SUPPORTS POSITION

- ❖ Women’s Information Service Inc. (WISE), Big Rapids, MI 03/2012 – 08/2012
  - o Administrative Volunteer Coordinator Supervisor: Kelly Samuels

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- o Evaluate and update current volunteer program, recruit and retain volunteers, order supplies for office, write grants and complete administrative tasks and fundraisers.
- ❖ Terwilliger WildCare Bay Area, San Rafael Ca  
02/2009 – 12/2009
  - o Education Intern Supervisor: Anya Pamplona
  - o Duties: presenting nature education programs at schools, developing curriculum for educational programs in compliance with State Science Standards, and various assigned projects
- ❖ State Farm Insurance Agency Lisa Elkins-Reuter, San Rafael CA  
09/2008 – 06/2009
  - o Staff Assistant Owner: Lisa Elkins-Reuter
  - o Duties: screening calls, scanning files, purging files, taking claims, organizing, office advertisement and marketing, scheduling, bank transactions/deposits, and answering phones

\*Thank you for your time in reviewing my qualifications and experience.