

# Ryan H. Legow

5 Summer Blossom Court, Chesterfield MO, 63017  
314-603-1224 (C) [ryan.legow@gmail.com](mailto:ryan.legow@gmail.com) 636-394-5715 (H)

## Objective

To obtain a position that grows my skills and leads to a fulfilling career. I enjoy collaborating with a team to work as a group combining insights and innovative thought to solve problems in new and unique ways. It is my hope to develop along with the Agency and to contribute to the United States for the betterment of myself and others.

## Education

- Bachelor of Arts in Biochemistry, Cell & Molecular Biology May, 2010
- Drake University, Des Moines, Iowa
- Academic Distinction: Beta Beta Beta Biology Honors Society

In Progress

- Doing a Bachelors in Computer Science starting in August 2013
- University St. Louis Missouri, St. Louis, Missouri

## Experience

Illinois State University, Normal, IL August 2011– May 2012  
*Research Assistant to Dr. Kirik*

- Grew and transformed Arabidopsis root
- Grew competent E. coli and Agrobacteria cell cultures
- Did both chemical and electrical transformations on cells

Hebrew University of Jerusalem, Ein Karem, Israel February to May 2011  
*Research Assistant to Dr. Karni*

- Increased A1 as we knew how it restarts the apoptotic pathway though is not as successful
- Grew cells found in rat and human lung tissue, control cells and cancerous phoenix cells
- Modified viral vectors
- Knocked down and increased A1 and A2
- Used viral vectors, grew viruses, grew cells in media, ran Western blots, PCR, Electrophoresis, & isolated plasmids.

Drake University, Des Moines, IA  
*Research Assistant to Dr. Chinh Dao*

January to May 2010

- Studied microbial ecosystems via molecular fingerprinting to measure changes in microbial diversity over time in given water or soil micro-environments, quantifying the fluctuations to determine sensitivity of microbial communities to 'normal' environmental changes
- Identified areas marginally influenced by human activity
- Collected samples and gathered time, date, GPS/GIS location, weather data
- Harvested bulk nucleic acid to culture microbes from samples
- Monitored water and soil for several weeks and ran gram stains on cultured microbes
- Ran PCR analysis for DNA fingerprinting purposes on bulk nucleic acid samples
- Compiled final research report using MS Excel & Word, including photographs of microbes taken on a light microscope with digital camera attachment

Drake University, Des Moines, IA  
*Research Assistant to Dr. Heidi Sleister*

August to December 2008

- Tested every type of person that is on these drugs
- Ran multiple PCR and studied related research papers
- Ran blotting procedures and compared different protein levels
- Compiled a final presentation using MS Power Point & Word

Illinois State University, Normal, IL  
*Lab Instructor*

August 2011 – May 2012

- Taught three Biology 101 lab courses with 25 students/class for two semesters
- Held regular office hours to keep in contact with all my students and proctored exams
- Participated in planning meetings with faculty and other graduate students to discuss lessons and plan experiments

Dierbergs, Chesterfield, MO

August to January 2004-2010

August 2013 - present

- Worked in various parts of the store so have wide ranging knowledge.
- Customer service experience. Training experience.
- Received Silver Club Awards for providing exceptional customer service
- Received Award for working for five years or more.

### Research Skills

Polymerase Chain Reaction, Thermocycling, Gram Staining	
Blotting; (Northern, Western, Southern)	Slants and Deeps (TSI, Citrate, SI)
Molecular fingerprinting	Use of profile and purification kits
Nucleic Acid & Protein isolation	Analytic PCH
Cell cultures (Human, Rat, Bacteria)	Viral cultures & vector use
Plasmid purification	Nanodrop
Agar gel to confirm DNA Length & Correct Transformation	
Triple gateway reactions (LR & BP)	
Growing competent cell cultures (Chemically & Electrically)	

Growing plants	Transformation
Gel Electrophoresis, NMR (H, C), Spectroscopy (UV, IR, Vis), Chromatography, Mass Spectrometry, RFLC Analysis	
Microsoft Office (Word, Excel, PowerPoint, Access)	Serial Cloner
NCBI Blast (nucleotide, protein)	
C++	Java

### Organizations

- Tau Kappa Epsilon Fraternity

### Volunteer Experience

Not New Shop, Des Moines, IA 2008-2009

- Assisted customers with heavy lifting and performed other services that helped the shop run smoothly.

Wells Fargo Arena, Des Moines, IA 2008-2009

- Worked with my fraternity at the arena to raise money for a worthy cause.
- Did normal concession stand jobs such as making food, manning the cash register, running food to the customers, and cleaning up our stand.
- Contract was complete we donated the money earned to charity.