

· JOSEPH ROSS ·

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Career Objective

Research Technician conducting biomedical research using biochemistry, molecular biology and problem-solving skills. Ideal job is secure, challenging, dynamic, benefits others; offers opportunity for additional training and advancement of education. Career path leads to Ph.D. and permanent employment in medical research.

Summary of Qualifications

- Independently researched a project in a molecular biology laboratory for over 1 year; excelled in biochemistry laboratory course
- BA in Biochemistry *magna cum laude* and Chemistry Department Honors
- Educated in biochemistry, molecular biology, genetics
- Documented success in achieving quality results from assays
- Excellent oral and written communication skills
- Experience in modifying protocols to optimize results
- Attentive to detail, personable, methodical, critical thinker, highly motivated

Summary of Skills

- DNA and protein extraction and isolation (agarose and polyacrylamide gel electrophoresis), PCR, Western Blot, DNA sequencing and autoradiography, yeast handling and preservation, sterile technique, plasmid construction and prep, transformation, restriction digest, radiation safety protocols, spectroscopy (NMR, UV-VIS, IR).
- Microsoft Word and Excel; Spartan, RasMol, DNA Strider, Mathematica; FileMaker; Adobe PageMaker, Photoshop, and Illustrator
- HTML, CSS, JavaScript, TrueBasic programming, Macintosh support.

Education

Degree

Bachelor of Arts in Biochemistry *magna cum laude* and with Chemistry Department Honors, University of Oregon, Eugene, Oregon, June 2000. G.P.A. 3.92. (Also fulfilled BS requirements.)

Courses

- Biochemistry, Genetics, Research Instruments, Research Writing, Honors General Chemistry, Organic Chemistry, Physical Chemistry, Core Biology, Physics with Calculus.
- Calculus, Differential Equations.
- Intro to Excel, Graphing in Excel, Advanced Spreadsheet Analysis, JavaScript, Cascading Style Sheets.
- German (2 yrs), Latin (3 yrs high-school).

Work Experience

Undergraduate Lab Assistant (1999–2000) Dr. Diane Hawley, University of Oregon

Worked on independent research project analyzing protein-DNA interactions.
Optimized assay protocols to improve signal-to-noise ratio.
Interpreted assay results using previous literature findings; presented results quarterly.
Analyzed results and produced charts to summarize data; included error analysis.
Trained lab members in uses of protocols and analytical instruments.
Propagated yeast cultures for use in *in vivo* studies.
Maintained lab cleanliness and stocks of reagents and supplies.
Provided Macintosh computer support.

Wedding Photographer (1994–2000) R.A.R.E. Photography, Albany, Oregon

Documented approximately 30 weddings per summer.
Interacted with and responded to requests of wedding party and guests.

Lab Assistant (1996–1999) Biology Mac Lab, University of Oregon

Maintained computer equipment in a heavily-used computer lab.
Assisted other students with homework and computer-related questions.
Responsible for opening and closing the lab; setting up remote workstations for lab courses.
Assisted in the training of lab assistants.

Presentations

- Focus on Undergraduate Research Poster Session, May 2000.
- Howard Hughes Medical Institute Undergraduate Research Symposium, August 1999.
- Focus on Undergraduate Research Poster Session, May 1999.

Memberships, Honors, and Awards

- Alpha Phi Omega National Service Fraternity, Student Member of the American Chemical Society, Mortar Board Senior Honor Society, Golden Key National Honor Society.
- Eagle Scout, Order of the Arrow, UO Centurion Award for Service, Dean's List, Who's Who in American Colleges and Universities.
- Howard Hughes Medical Institute Undergraduate Research Fellowship, Presidential Scholarship, Albany General Hospital Auxiliary Scholarship.