
GENETIC ENGINEERING RESUME

Summary:

An outstanding scientist who has the skills to modify genes or hereditary makeup of microorganisms, plants, and animals; specializes in the field of genetics and conducts research in a broad range of biological sciences related fields; has developed techniques with numerous important applications in the fields of medicine, agriculture, and animal husbandry; has developed strains of bacteria that improve the effects of antibiotics and other useful pharmaceutical products; has also conducted clinical tests to help diagnose hereditary diseases and to correct infertility in humans; has excellent knowledge in agricultural technology to develop new crops that are more nutritious, disease-resistant, and able to flourish with less fertilizer

Professional Experience:

Research Engineer January 2007 – Present
Quest Diagnostics, Albany, NY

Responsibilities:

- Extended expertise to the design of mass-produced products with cut and formed metal components
- Prepared metal forming and cutting with finite element analysis for research purposes
- Verified simulations of metal forming and cutting with experimental data to test the results and gather necessary information
- Maximized forming and cutting processes using genetic algorithms, direct search, and gradient methods to save operations cost
- Applied non-linear material models of metals like strain rate sensitivity, strain hardening, temperature influence to achieve the metal quality standard
- Enforced failure criteria for plastic deformed metals under simulations
- Operated non-linear friction models in metal forming simulations for testing purposes

Bioinformatics Software Engineer May 2004 – December 2006
Health Quest Systems, Albany, NY

Responsibilities:

- Conducted programming and software development broadly in the areas of bioinformatics and computational biology
- Involved in the creation of the design and implementation of efficient algorithms for genomic data analysis
- Worked directly with faculty, post docs, and students on research and laboratory test in the department
- Implemented statistical algorithms for analyzing data from genome-wide association studies and epigenetic
- Developed maintenance of the computational functional genomics, with a focus on its distribution system

Process Engineering Professional February 1999 – May 2004
LifeBridge Health Albany, NY

Responsibilities:

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Bioinformatics Software Engineer May 2004 – December 2006
Health Quest Systems, Albany, NY

Education:

Masters Degree in Biological Science, University of Iowa, 1999
Bachelor's Degree in Biology, Rockefeller University, 1994

Skills:

- Familiar with agency structure and policy
- Political realities, regulation process, and technical aspects of the job
- Ability to prepare quality written reports and make oral presentations is mandatory
- Excellent communication skills
- Knowledge of advanced principles of scientific method and biological techniques
- Working knowledge of current farm and forestry
- Good motivational and personnel management

Awards and Affiliations:

National Society of Genetic Counselors, Member
American Board of Genetic Counseling, Member
American Society of Human Genetics, Member

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