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# BIOMATERIALS ENGINEER RESUME

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## Summary:

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An experienced biomaterials engineer with solid research background in biomaterials, protein chemistry, drug delivery, and tissue engineering and deep experience in a wide variety of duties associated with analysis possesses; outstanding R&D ability and extensive experience in project management and minimum of 2 years practice in the Biomaterials Industry, and demonstrated expertise in the set-up, purchase, interfacing and testing of data acquisition equipment, computer processing of data and data analysis and collection of high quality data in biomaterial studies.

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## Professional Experience:

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Research Assistant January 2007 – present  
ABC Biomaterials Laboratory, Los Angeles California

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## Responsibilities:

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- Explained experimental procedures in the Biomaterials Laboratory.
  - Researched 10 types of chemical reagents compatible with different kinds of chemical analyzers.
  - Evaluated equipments for efficiency, safety and effectiveness.
  - Revealed the physical/chemical properties and acid stability of protein endostatin.
  - Developed product standards for 35 types of chemical reagents according to European standards.
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## Objective:

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Seeking the position of Biomaterials Engineer in a reputable organization where my extensive skills in Biomaterials processing, Tissue Engineering, and other related field will be greatly utilized to meet the company's desired objectives in producing quality and effective biomedical devices.

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## Education:

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Doctor of Philosophy in Chemical & Biomolecular Engineering, 2004  
Yale University

MS in Chemical Engineering, 2000  
Yale University

BS Biochemical Engineering, 1996  
Yale University

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## Skills:

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- Extensive background in biomaterials, protein industry, and tissue engineering
  - Experience with porous polyurethane (PUR) scaffolds
  - Working knowledge in PUR/PDGF implants
  - Strong knowledge in absorbance, and fluorescence reading; osteoprogenitor cell culturing and analysis
  - 10+ years extensive exposure to Biomaterial Engineering
  - Excellent analytical and mathematical skills
  - Strong verbal and written communication
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## Professional Experience:

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- Biomaterials Engineer III, 2007-present
  - Biomaterials Lab, North Cleveland, TX
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## Responsibilities:

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- Used linker molecules in the invention and development of biological or bio-artificial scaffolds for tissue regeneration
- Evaluated samples of artificial hips, contact lenses and dental implants before presenting to the top management for approval.

- Incorporated growth factors into PUR by obtaining drug release kinetics.
- Biomaterials Engineer II, 2005-2007
- Protein Chemistry Lab, North Cleveland, TX

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### **Responsibilities:**

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- Performed soft tissue regeneration using PUR and PDGF implants.
- Monitored and recorded antibiotic release from PUR for up to 8 weeks.
- Solved the compatibility problem of XXX chemical reagents by developing product standards for 35 types of chemical reagents.
- Designed structures and biomedical devices to augment or replace some natural functions.
  
- Biomaterials Engineer I, 2000-2005
- Haber Inc., North Cleveland, TX

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### **Responsibilities:**

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- Biomaterials Engineer II, 2005-2007
- Protein Chemistry Lab, North Cleveland, TX

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### **Certifications and Affiliations:**

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Poster Award 3rd, Craniofacial session, Armed Forces Institute of Regenerative Medicine (AFIRM)  
Certificate in Sustaining the Release of Vancomycin from Polyurethane Scaffold for Infection Control  
Society for Biomaterials (SFB), President

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