

## Sr. Research Fellow

# ROBERT SMITH

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## Objective

An accomplished, versatile leader in biological sciences and crop biotechnology with extensive experience in people and project management. Reputation for building and leading highly successful, cross-functional, international teams consisting of agronomists, biochemists, breeders, chemists, geneticists, molecular biologists and statisticians with the goal of developing and implementing strategy to improve crop productivity through native genetics and biotechnology.

## Skills

Office Applications, Molecular Biology.

## Work Experience

### Sr. Research Fellow

**ABC Corporation** - June 2013 – August 2013

- Advanced Materials for Environmental Sustainability Research Experience for Undergraduates Researched the integration of optical fibers into superconducting magnets in order to detect when a magnet quenches.
- Determined oxide candidates with properties such as high thermal conductivity, high coefficient of thermal expansion, as well as being a good electrical insulator, to serve as coatings for optical fibers.
- Innovated and improved processes used for preparing the oxide solutions and applying the solutions to the fibers.
- Learned and performed proper skills and safety precautions required for dealing with hazardous chemicals within a laboratory setting.
- Tested and compared thermal response of acrylate fiber, titanium oxide coated fiber and gold coated fiber with zinc oxide coating at room temperature as well as liquid nitrogen temperature.
- Analyzed results within Excel, using graphs and charts.
- Incorporated results into a poster presentation and presented the results at a symposium in Raleigh, North Carolina.

### Research Fellow

**ABC Corporation** - 2011 – 2013

- Advisor Dr.
- Hari S Misra PhD.
- (Head of Molecular Genetics Department) Masters Thesis Project "Molecular studies on DNA repair Polymerase X and cloning of its functional domains from *Deinococcus radiodurans*"
- Responsibilities Performed molecular cloning of Pph hydrolase and polymerase domain of PolX.
- Developed a protein purification protocol for PolX isolation.
- Identified and analyzed the protein-protein interaction of PolX with other deinococcal proteins.
- Techniques PCR amplification, plasmid isolation, chromosomal DNA isolation, restriction digestion, bacterial transformation and DNA elution from agarose gel, protein purification,

western blotting, sample preparation of MALDI -TOF, dialysis & sonication..

## Education

Bachelor of Arts in Physics - 2013(Hastings College - Hastings, NE)