



## Statement of Qualifications

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**NEAtech, LLC**  
**10585 W Beloit Place**  
**Denver, CO 80227**  
**303-906-6234**  
[www.neatechllc.com](http://www.neatechllc.com)



## **NEAtech LLC**

NEAtech is a technology-based engineering and consulting firm specializing in advanced biofuels projects, biomass energy projects and other renewable energy projects such as wind and solar. We assist our clients in the development of renewable energy and biotechnology projects worldwide. The principals and associates of the company have long-established reputations within the biomass, biofuels and bioenergy sectors. The NEAtech team has the experience and expertise to help make your project a success.

With experience gained from working in senior level positions at world-class organizations such as the National Renewable Energy Laboratory, United Engineers and Constructors, Pacific Gas and Electric Company, and BBI International, the founders have focused and honed their skills on the research, development, deployment and commercialization of renewable energy projects. From research of microorganisms, enzymes, anaerobic digestion, geothermal systems, cellulosic ethanol, and biomass power to project management of multi-million dollar projects, market assessments and business plans, NEAtech provides to the novice entrant as well as to the experienced project owner the best of services available in the renewable energy industry.

The company's founding principals were previously the "brain trust" of BBI International's Engineering and Consulting Division. Building on their previous experience they bring all of the capabilities to perform technology assessments, feasibility studies, business and marketing plans, Schedule A engineering packages, economic impact assessments and project development services. With involvement in more than 250 previous studies in the biomass and renewable energy sector, the principals of NEAtech are able to provide the most current, accurate, reputable, and unbiased reports in the industry.

## **Market Focus**

NEAtech's market focus relies on providing clients with the benefits of its collective experience in renewable energy and biotechnology by targeting New Energy Alternatives (the "NEA" in NEAtech). Based on the established credentials of the principals in the bioenergy sector, NEAtech is well-positioned to support its clients in the development and deployment of 2<sup>nd</sup> and 3<sup>rd</sup> generation renewable energy technologies. Your project can benefit from NEAtech's expertise in feasibility studies, process engineering, technology development, technology deployment, project development, as well as supporting clients with government reporting requirements and proposal preparation. With expertise in research and management of government and publicly-funded energy projects NEAtech is prepared to assist our clients in identifying grant and loan guarantee opportunities.

NEAtech assists clients worldwide in the development of advanced biofuels and biomass-based alternative energy projects. Services we provide include:

- Feasibility studies
- Feedstock analyses
- Market analyses
- Development of financial strategies and financial analyses
- Development of business strategies and business plans
- Evaluation and selection of renewable energy technologies
- Conceptual and preliminary designs for renewable energy projects
- Proposal preparation for government grants, contracts and loan guarantees
- Expert witness services for mediation, arbitration and legal actions

## Managing Partners

### *Mark Yancey, Managing Partner*

As previous CEO of BBI International's startup cellulosic ethanol company, BBI BioVentures, and Vice President of BBI's Engineering and Consulting Group, Mark oversaw development of 2<sup>nd</sup> generation biofuels technologies as well as all ethanol and biodiesel project development activities for BBI. From 2001 to 2008 Mark's group completed over 250 projects ranging from feasibility studies to more complex cellulosic ethanol technical and business analyses. Mark's team completed project development from concept to construction for six ethanol plants and one biodiesel plant in the US and Canada representing over 300 million annual gallons of biofuels production. By the end of 2008, Mark's team had contributed to the development of 50 of the 200 ethanol plants in the US.

Prior to joining BBI, Mark was the industrial partnership team leader for the Biofuels Program at the National Renewable Energy Laboratory (NREL) in Golden, Colorado. Mark's NREL duties included identifying and analyzing new opportunities for the application of technologies for the production of ethanol from lignocellulosic biomass. During his nine years at NREL, Mark managed a wide variety of projects including the technical and economic evaluation of converting forest residues, wood waste, wheat straw, rice straw and spent brewers grain to ethanol. Mark has a detailed understanding of ethanol production from both starch and sugar based feedstocks as well as cellulosic feedstocks.

Mark has 30 years experience in the fields of renewable energy and environmental engineering; he obtained his Bachelor of Science Degree in Chemical Engineering from Stanford University.

### *Rafael Nieves, Managing Partner*

Rafael has worked in the renewable energy sector for over 24 years. His formal training is in biotechnology with emphasis on the biofuels and bioindustry sector. Prior to NEAtech, Rafael worked with national and international clients as BBI's Director of International Business Development as well as a Lead Project Manager.

Prior to joining BBI, Rafael worked in the National Bioenergy Center at the U.S. Department of Energy's National Renewable Energy Laboratory as a senior enzyme researcher and later as a senior project leader. His research interests were in the fields of biochemistry and biotechnology as applied to biofuels. As a senior project leader Rafael was responsible for project administration as well as project development within NREL and the U.S. Department of Energy. While Project Manager at NREL, he was the lead Technical Monitor for the U.S. Department of Energy's multi-million dollar cellulase improvement program with Novozymes Inc. and Genencor International.

Rafael holds a Doctorate from Colorado State University and a M.B.A. in International Business from the Daniels' College of Business at the University of Denver.

## NEAtech Staff

### *Art Wiselogel, Sr. Project Manager*

Art Wiselogel has over 30 years of experience in project management, personnel management, and as a scientist in environmental sustainability, and renewable energy and fuels. Formerly a BBI International Project Manager, Art worked closely with renewable project principals to plan, develop and oversee the implementation of business plans under the guidance of the Client's Project Board or Steering Committee. Art also served as Project Manager for Integrated Resource Technologies Inc. on their largest contract with the US Department of Energy's Golden Field Office. Art has also worked as a project

coordinator and geneticist at the University of Georgia, Texas A&M University, and Texas Forest Service.

Art has a Doctorate from Texas A&M University where he studied genetics and plant breeding, a Masters of Science degree in Agriculture from Oklahoma State University, and a Bachelor of Science degree in Forest Science from Mississippi State University.

***Jeff Coombe, Project Manager***

Jeff has been in the renewable energy and environmental science field for 5 years, including experience in economic analysis for ethanol and biodiesel production facilities, project management for end use vehicle fleet conversions to alternative fuels, and environmental protection management for industrial facility wastewater effluent. Jeff is an active member of the Colorado Governor's Biofuels Coalition steering committee. Strengths include data acquisition and analysis, current and emerging biodiesel feedstock and production technology, and inter-industry relations. Jeff has conducted technical studies on biofuels and other renewable energy technology applications. He has also assisted in the organization, logistics, and management of biofuel production plant development. Jeff holds a B.S. in Environmental Science from the University of Oregon.

***Chris Lindeman, Process Engineer***

Chris is a chemical engineer with 4 years of experience in renewable energy from biomass. He has worked with BBI International's Process Engineering group and has garnered expertise in process development methods, modeling in ASPEN+ and METSIM process simulators, cost estimating, and performing technical feasibility studies.

## **NEAtech Experience and Expertise**

### **Ethanol Feasibility Studies and Project Development**

NEAtech's managing partners are experienced in moving a biofuels project from conceptual ideas in the feasibility stage to full project development, assisting in raising financing and ultimately getting the project to financial closure. They have completed ethanol and biodiesel feasibility studies, business plans, and/or project development services for clients in over thirty states. The following are ethanol projects completed by one or more of the managing partners:

- Arkalon Energy, LLC 100 million gallon per year (mmgy) ethanol plant in Liberal, Kansas
- Bonanza BioEnergy, LLC 55 mmgy ethanol plant in Garden City, Kansas
- Western New York Energy, LLC 50 mmgy ethanol plant in Shelby, New York
- Front Range Energy, LLC 40 mmgy ethanol plant in Windsor, Colorado
- Prairie Horizon Agri-Energy, LLC 40 mmgy ethanol plant in Phillipsburg, Kansas
- Multiple international feasibility studies for clients in Mexico, Ecuador, Ghana, Ukraine, Canada, Armenia and Australia

NEAtech has experience with the following ethanol feedstocks:

- |                                       |                              |
|---------------------------------------|------------------------------|
| • Corn                                | • Potato waste               |
| • Sugarcane and sugarcane molasses    | • Triticale                  |
| • Sugar beets and sugar beet molasses | • Lignocellulosic feedstocks |
| • Grain sorghum                       | • Agricultural residues      |
| • Sweet sorghum                       | • Fruit processing waste     |
| • Barley                              | • Municipal solid waste      |
| • Wheat                               | • Spent brewers grain        |

**Biodiesel**

NEAtech has experience in biodiesel feasibility studies for projects in Colorado, Iowa, Maryland, Minnesota, Missouri, Nebraska, Oregon, Pennsylvania, South Dakota, Louisiana, South Carolina, Texas, and Washington. Internationally, NEAtech's experience includes biodiesel feasibility studies in Canada, Indonesia, Singapore and Colombia. NEAtech has developed a database of biodiesel production technologies and market data similar to our ethanol database.

Feedstocks for biodiesel projects include:

- Soybeans and soybean oil
- Palm oil
- Corn oil
- Canola
- Mustard seeds
- Rapeseeds
- Fats, oils, and grease
- Various recycled feedstocks
- Various "waste" feedstocks

**Biomass**

NEAtech's principals have over 50 years of "hands on" experience in the conversion of lignocellulosic biomass to fuels and chemicals, including extensive biomass research and process development experience. The principals of NEAtech have performed numerous cellulosic ethanol feasibility and risk assessment studies and technology reviews that have considered various feedstocks as well as different technology applications. From feedstock collection and composition to fermentation and process operating parameters, NEAtech has a comprehensive understanding of the infrastructure and unit operation requirements.

**Process Engineering**

At NEAtech we work with clients to develop process design packages for the production of fuels, feed, energy, and chemicals from biomass. Our company brings over 40 years combined experience in the design, demonstration, and deployment of fuel ethanol projects and biomass utilization. Our focus is developing process design packages for biomass utilization and renewable energy products. Our core strengths are in biotechnology, fermentation, feedstock handling and preparation, pretreatment, enzymatic and thermo-chemical hydrolysis, sterilization, solids separations, distillation, evaporation and product purification. These strengths include most unit operations common to the biomass-based renewable energy technologies such as anaerobic digestion, landfill gas recovery, biomass power/cogeneration and chemical process industries.

**International Studies**

The principals of NEAtech have performed ethanol and biodiesel feasibility studies in Canada, Mexico, Africa, Australia, Indonesia, Singapore, Philippines, Colombia, Vietnam, Armenia and the Ukraine.

**Emerging Technologies**

Based on the established credentials of the founding principals, NEAtech is well positioned to study and develop emerging renewable energy processes and projects. Projects studied include:

- Numerous technology assessment and feasibility studies for cellulosic ethanol technologies
- Integration of anaerobic digestion of feedlot manure with ethanol plants in California, New Mexico, Canada and Australia
- Biomass to energy study encompassing Northern California and Southern Oregon for the Ore-Cal RC&D
- Biomass resource assessment and biomass ethanol feasibility study for the Oregon Energy Office.
- Cellulosic ethanol study for the State of Maine
- Coal and biomass co-firing study for the National Renewable Energy Laboratory

**Economic Impact Studies**

NEAtech is adept in evaluating the impacts of regulations and government policy on bioenergy businesses. Studies include:

- Policy impacts and policy options for REDDI of Pennsylvania (biodiesel)
- The Missouri Corn Growers (ethanol) and other groups and organizations
- Return on investment for numerous state incentives

Economic impact studies of biofuels plant construction and operations have been performed in Illinois, Wisconsin, New York, Kansas, Idaho, Iowa, Oregon and Hawaii. These studies include:

- The impact on state balance of trade
- Value added to agricultural products
- Increased investment in plant and equipment
- Job creation and other fiscal impacts due to increased biofuels production within a state

**Additional Information**

Additional information on NEAtech, LLC is available on our web site at [www.neatechllc.com](http://www.neatechllc.com). Resumes for the senior NEAtech team members follow.

**Mark A. Yancey**  
**Managing Partner**  
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### **Qualifications**

Mark has 30 years of experience in the fields of renewable energy and environmental engineering including extensive experience in project development and economic analysis for first and second generation biofuels facilities. Mark's expertise is in the development of renewable energy projects including development of business strategies and financial, market and technical analyses of projects and renewable energy opportunities. Mark has excellent management skills and his strengths include business development, project planning, financial analysis, and project development in addition to his excellent communications and interpersonal skills. Mark has presented at well over 100 conferences and workshops worldwide during his tenure at BBI International and NREL. He is a recognized expert in the development of biofuels projects.

### **Experience**

*NEAtech, LLC, President and CEO, January 2009 – present*

Developing New Energy Alternatives is the focus and mission of NEAtech, a company founded on the day that Barack Obama was sworn in as the 44th President of the United States. The principals of NEAtech, Mark Yancey and Rafael Nieves, bring over 50 years of experience in alternative energy R&D, deployment and commercialization. NEAtech will assist clients worldwide in the development of wind, solar and biomass based alternative energy projects. Mark's focus at NEAtech will be on project development, project management and financial analysis.

*BBI BioVentures, LLC, CEO, June 2008 – January 2009*

As CEO of BBI BioVentures, LLC, a subsidiary of BBI International created in 2008 to commercialize BBI's cellulosic ethanol technologies, Mark was responsible for all aspects of the company startup and development of the company's strategic plan. Mark was responsible for carrying out BBI BioVentures' multi-plant strategy for the development and operation of several cellulose-based ethanol plants utilizing spent brewers grains for the production of ethanol and a high protein animal feed by-product.

*BBI International, Vice President of Project Development, March 2001 – June 2008*

As vice president of BBI's Project Development Division, Mark managed all renewable energy project development activities for BBI. Mark grew the Project Development Division from two people in 2001 to over 20 dedicated employees in 2008. BBI's Project Development Division was recognized as one of the most successful and knowledgeable biofuels consulting organizations in the US under Mark's leadership. Mark's team performed feasibility studies, prepared and executed business plans, conducted feedstock resource assessments, performed lender due diligence and construction progress inspections, and negotiated offtake and design/build contracts for approximately 25% of the US biofuels industry. While at BBI, Mark's team completed over 250 projects ranging from simple pre-feasibility studies to more complex cellulosic ethanol technical and business analyses. Mark's team completed project development from concept to construction for six ethanol plants and one biodiesel plant in the US and Canada representing over 300 million annual gallons of biofuels production.

*National Renewable Energy Laboratory, Senior Project Leader, 1992 – 2001*

At NREL Mark held positions as project manager and team leader for the Biofuels Industrial Partnerships Team, the NREL/Coors CRADA Project and the Biofuels Program Management and Operations Team. Mark's NREL responsibilities included the establishment of industrial partnerships for the Biofuels

Program and technical and economic evaluation of cellulosic ethanol commercialization projects including the evaluation of the conversion of wood, rice straw, corn stover, sugarcane bagasse and spent brewers grain to ethanol. Mark also held the position of Biofuels Program Deputy Program Manager for two years. Other responsibilities included Biofuels Program planning, monitoring and reporting to the Department of Energy. Mark also developed Biofuels Program annual operating plans, fieldwork proposals, cost plans, capital equipment acquisition plans, human resources plan, and Biofuels Program milestones.

*United Engineers and Constructors, Senior Process Engineer, 1989 – 1992*

At UE&C Mark developed process designs and specifications for hazardous waste incineration plants and natural gas processing plants. Mark also developed operating manuals for gas processing plants.

*Pacific Gas and Electric Company, Senior Chemical Engineer, 1977 – 1989*

At PG&E Mark developed and demonstrated new and innovative hydrogen sulfide abatement systems for geothermal power plants. He also designed geothermal power plant sulfur removal systems (via the Stretford process) and general plant instrumentation and controls systems. Mark also held positions as Chemical Group Leader at the Geysers Power Plant and at Moss Landing Power Plant.

**Education**

B.S. Chemical Engineering, Stanford University, 1977

**Awards**

Chairman's Award, Pacific Gas and Electric Company, 1988

Chairman's Award, Honorable Mention, Pacific Gas and Electric Company, 1987

DOE Customer Recognition Award for the Gridley Rice Straw Ethanol Project, 1998

**Rafael Nieves**  
**Managing Partner**  
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### **Qualifications**

Dr. Rafael Nieves has worked in the renewable energy sector for over 25 years. His formal training is in biotechnology with emphasis on the biofuels and bioindustry sector. Rafael is experienced in the management of national and international collaborations as well as management of large technical projects. Rafael's technical expertise is in the hydrolysis and fermentation sciences of biomass conversion as well as the production of monoclonal antibodies. He was a cellulase researcher and Technical Lead for the National Renewable Energy Laboratory and the U.S. Department of Energy's cellulase cost-reduction research performed by Novozymes Biotech Incorporated and is co-author of three enzyme patents. He is an experienced lead project manager and was Director of Business Development at BBI International, a biofuels service firm. Successful client collaborations have been well-served by his R&D technical skills and business experience. Rafael has extensive experience nationally and internationally being intimately involved in bioenergy projects in the U.S., Mexico, the Dominican Republic, El Salvador, Puerto Rico, Brazil, Australia, Philippines, Ghana, Armenia, Indonesia and the Ukraine. He possesses a Ph.D. from Colorado State University and a M.B.A. from the Daniels College of Business at the University of Denver.

### **Experience**

*NEAtech, LLC, Managing Partner, January 2009 – present*

Developing New Energy Alternatives is the focus and mission of NEAtech. The principals of NEAtech, Mark Yancey and Rafael Nieves bring over 50 years of experience in alternative energy R&D deployment and commercialization. NEAtech will assist clients worldwide in the development of advanced biofuels technologies, biomass based alternative energy, wind and solar projects.

*BBI International, Director - International Business Development, 2007 – 2009*

Rafael was the Director of the international business development effort for BBI International's Engineering and Consulting Group. He was involved in bioenergy projects in the U.S., Mexico, the Dominican Republic, Puerto Rico, Brazil, Australia, Philippines, Ghana, El Salvador and the Ukraine. His duties also included managing BBI business development representatives in Mexico, Argentina, El Salvador and Hungary.

*BBI International, Project Manager/Business Development Manager, 2005 - 2007*

Rafael was the lead for BBI's business development effort. He was responsible for the initial business contacts as well as international research for ethanol and biodiesel plant feasibility studies, providing client proposals, and developing project development and feasibility study business leads. Additionally, he was the Project Manager for a 100 million gallon per year ethanol facility in the panhandle of Texas.

*National Renewable Energy Laboratory, Senior Project Leader, 1997 – 2005*

As a Senior Project leader at NREL, Rafael developed and managed numerous funds-in collaborations with industrial partners and other institutes. He also cultivated clients and developed solid partnerships based on support and commitment. He worked closely with NREL engineers and researchers to meet client's needs and reporting. In addition, he co-managed a yearly maximum operating budget of \$7 million to include a large number of subcontracts. Rafael was responsible for representing NREL's Biotechnology Center at national and international professional conferences. At NREL he developed superb negotiation abilities utilized in contract negotiations and project management. He was the recipient

of a 2004 R&D 100 award for his role as technical monitor of the \$60 million DOE-funded cellulase research efforts by Novozymes Biotech., Inc. and Genencor International. While at NREL, he established a five year-long mentoring program for Latin American summer students termed the Biofuels Research Initiative for Student Advancement (BRISA Program).

*NREL Enzyme Technology Team, Staff Scientist, Senior Scientist, 1991-1996*

As part of the Enzyme Technology Team, Rafael performed purification and characterization of novel microbial enzymes. He performed fermentations, purification and characterization of proteins utilizing HEC, SEC, IEC, and isoelectric focusing from fermentation broths and MSW anaerobic digestion sludges. He developed ELISAs and utilized other immunological techniques for enzyme detection, quantification and characterization. He also utilized molecular biology techniques to express program-relevant heterologous proteins. During this time he was author and co-author on three enzyme patents.

*Colorado State University, Medical Technologist, 1984-1990*

At CSU Rafael performed analysis of medical specimens in the areas of hematology, blood chemistry, microbiology, serology, and urinalysis (during M.S. and Ph.D. studies).

*Bayamon Regional Hospital, Medical Technologist, 1982-1984*

At Bayamon Regional Hospital, Rafael performed analysis of medical specimens in the areas of hematology, blood chemistry, microbiology, serology, and urinalysis.

**Education**

Medical Technology Degree, Universidad InterAmericana (Puerto Rico), 1982

M.S. and Ph.D. Microbiology, Biochemistry, Colorado State University, 1990

M.B.A. International Business, University of Denver, 2002

**Awards**

- Recipient of 2004 R&D 100 award as lead technical monitor for a \$35 million enzyme genomics and proteomics R&D effort with Novozymes Biotech Inc. sponsored by the U.S. Department of Energy.
- National Renewable Energy Laboratory Staff Award (2004)
- Puerto Rico Fomento Economico Student Scholarship Award (1984)
- Puerto Rico Fomento Economico Student Scholarship Award (1987)

**Arthur (Art) Wiselogel**  
**Sr. Project Manager**  
**NEAtech, LLC**  
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### **Qualifications**

Dr. Art Wiselogel is a recognized expert in biomass resource assessments, technical evaluations of biomass-based renewable energy technologies, and renewable energy business analyses. Wiselogel has 30 years of experience in biofuels, agronomy and forestry as a scientist, project manager and analyst. He previously worked with BBI International Inc., the U.S. DOE National Renewable Energy Laboratory, the University of Georgia and Texas A&M University.

### **Experience**

*NEAtech, LLC, Sr. Project Manager, 2009 – present*

Dr. Wiselogel will conduct biomass resource assessments, technical evaluations of biomass-based renewable energy technologies, and perform renewable energy business analyses. Dr. Wiselogel will also be responsible for managing renewable energy project development activities for NEAtech's clients.

*ANTARES GROUP, Senior Scientist, 2009 – present*

As a Senior Scientist at Antares Group, Dr. Wiselogel performs analyses of forest biomass resource availability and cost, performs bioenergy plant site evaluations, and carries out project development activities and financial analyses for client's projects. Dr. Wiselogel has performed forest resource assessments for Alabama, the Upper Peninsula of Michigan/Wisconsin, Hawaii's Big Island, Southern New England/Connecticut, East Central Mississippi, Southeastern Georgia, East Texas, and a regional assessment of the Mid-south US.

*A Wise Renewable Energy Consulting, Owner, 2008 – present*

Dr. Wiselogel is a Renewable Energy Consultant providing biomass resource assessments, technical evaluations of biomass-based renewable energy technologies, and renewable energy business analyses.

*BBI International, Senior Project Manager, 2004 – 2008*

As a Senior Project Manager at BBI International, Art supervised and performed project development activities for biomass energy projects including developing and maintaining project schedules and budgets, writing business plans, debriefing clients on project status, assisting clients with financing (equity drive, senior debt, mezzanine debt), and assisting with vendor negotiations. Art also developed the business strategy and wrote the business plan for BBI's *Community Initiative to Improve Energy Sustainability (CITIES)*. Art also developed analytical tools and trained analyst to perform energy audits for the CITIES program. Art also conducted feasibility studies, market analysis, and wrote white papers for corn ethanol, cellulosic ethanol, biodiesel, and other bio-based chemicals.

*Integrated Resource Technologies, Project Manager/Personnel Manager, 2001 – 2004*

Project Manager for contract staff at DOE Golden Field Office, and the Boston, Chicago, Philadelphia, and Seattle Regional DOE Offices. Art's responsibilities included overall management responsibility for the IRT/DOE contract, budget management and invoice approval, hire/fire authority, annual staff performance reviews, determine merit salary increases and set bonus pools, manage subcontracts and annual planning. Art provide formal briefings to DOE on the status of work efforts and provide technical assistance in the area of renewable energy.

*National Renewable Energy Laboratory, Sr. Scientist/Project Manager, 1991 – 2001*

Art held several positions at NREL including Project Manager for the Terrestrial Feedstock Interface Project; Senior Scientist; and Biofuels Program Coordinator.

As the Project Manager for the Terrestrial Feedstock Interface Project, Art managed a cross-section research team of NREL scientists from six Branches and three Divisions, coordinated all aspects of external subcontract research, provided technical support in the areas of forestry and agriculture to the Biofuels Program, served as the Biofuels Program representative to forestry and agriculture concerns, authored strategic plans, implementation plans (five-year plan), and annual operation plans, and was a member of the International Energy Association Technical Advisory Committee.

As a Senior Scientist at NREL, Art managed research team members allocated to biomass conversion research, authored papers, work packages and budgets, QA/QC documents, Statements of Work, developed experimental designs for biomass storage and handling research, coordinated and provided technical management for 12 biomass subcontracts, and coordinated the procurement, tracking, processing, and storage of biomass materials for NREL.

As an NREL Biofuels Program Coordinator, Art managed Center Alignment and Project Execution Teams and the Communications Team, coordinated the development of a management data base system, coordinated annual work and fiscal plans, and coordinated all aspects of program external subcontracts. Other activities included TAPPI subcommittee chair, BioEnergy'00 Board, BioEnergy technical review, reviewer for refereed journal, and NREL award committees.

*Project Coordinator, University of Georgia School of Forestry, 1987 – 1991*

Manage computer programmers, technicians, graduate students, and student workers; author papers, grants, QA/QC documents, monthly reports, quarterly reports, and annual reports; plan and conduct research involving tree and ecosystem responses to air pollution and moisture stress; design, construction, and testing of a facility to study air pollution and moisture stress. Taught lecturers and laboratory classes.

*Research Associate/Lecturer/Silvaculturist II, Texas A&M University, 1984 – 1986*

Manage tree physiology laboratory; manage a research associate, a technician, two graduate students, and four student workers; manage an electrophoresis laboratory and staff for the genetic identification of trees; teach lecture and laboratory course in Dendrology (tree identification), Introduction to Forestry, and Tree Physiology.

**Education**

Ph.D., Texas A&M University, Genetics/Tree Breeding, 1985

M.S., Oklahoma State University, Genetics/Plant Breeding, 1981

B.S., Mississippi State University, Forest Management, 1979