

Angel Payne

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SUMMARY

Accomplished Principal Chemical Engineer with over 10 years of experience in technology and product development, specializing in fire suppression and life safety products. Proven track record in managing chemical compliance and leading initiatives to improve product performance through innovative chemical solutions. Expertise in collaborating with cross-functional teams, guiding projects from concept through industrialization. Committed to advancing global standards for fire safety while maintaining compliance with environmental regulations. Deep understanding of regulatory frameworks like PFAS and REACH underpins operational success. Excited to bring a strategic mindset and hands-on leadership to future projects.

EXPERIENCE

Principal Chemical Engineer January 2019 - Present
Innovative Chemical Solutions *San Diego, CA*

Lead size expansion efforts for a comprehensive portfolio of new fire suppression agents aimed at enhancing safety and performance in residential applications. Spearhead global compliance initiatives, including PFAS and REACH regulations, ensuring all products meet critical safety and environmental standards.

- Directed collaborative projects in developing innovative agents tailored for diverse application needs.
- Executed standard operating procedures that streamlined testing protocols, improving efficiency across the supply chain.
- Provided technical mentorship to engineering teams, fostering knowledge sharing that encouraged innovation.
- Served as primary contact for manufacturing sites, addressing challenges and optimizing output quality.
- Piloted the integration of emerging technologies into legacy systems, facilitating cutting-edge improvements.
- Spearheaded multi-regional discussions with stakeholders to align sustainability objectives with product roadmaps.

Senior Chemical Engineer June 2014 - December 2018
Advanced Chemical Engineering *Dallas, TX*

Managed comprehensive projects focusing on fire safety product compliance and efficacy, transforming stakeholder feedback into actionable engineering insights. Emphasized team coordination to drive product innovations aligned with market demands.

- Conducted extensive research to optimize combustion chemistry for enhanced formulation efficacy.
- Collaborated aggressively with suppliers, identifying and evaluating alternative chemical sources, leading to significant sustainability improvements.
- Implemented training programs that enhanced understanding of safety and compliance measures within engineering departments.
- Utilized advanced instrumentations such as TGA/DSC and FTIR to validate product specifications and performance metrics.
- Developed technical documentation, ensuring accurate compliance reporting and clarity for internal audiences.
- Engaged in proactive risk-assessment strategies which protected company liabilities in product showcases.

Chemical Engineer August 2011 - May 2014
Chemical Innovations Inc. *Houston, TX*

Contributed to the assessment and development of fire suppression agents under different conditions to ensure resilience and performance variables across environments. Engaged proactively with product management to merge engineering initiatives seamlessly with consumer expectations.

- Executed laboratory tests transitioning new agents to full-scale production cycles focusing on strain tolerance and validation.
- Trained project teams on rigorous compliance standards and produced direction manuals, enhancing implementation effectiveness.
- Enabled support structures for risk management, averting costly setbacks in compliance processes.
- Facilitated quality assurance control processes, substantially lowering defect rates across major product lines.
- Communicated analytical findings with senior stakeholders, shaping strategic directives based on evidence-based outcomes.
- Designed presentations targeting key topics in fire safety technology, raising awareness and driving buy-in from varied audiences.

LEADERSHIP & AWARDS

- Certified Chemical Engineer (CCE)
- Recipient of Industry Excellence Award 2022

EDUCATION

Bachelor's Degree in Chemical Engineering 2011
University of Texas at Austin GPA: 3.6 *Austin, TX*

Coursework: Thermodynamics, Fluid Mechanics, Chemical Reaction Engineering, Process Design

CERTIFICATIONS

- Certified Chemical Engineer (CCE) 📅 2021
- Project Management Professional (PMP) 📅 2020

TECHNICAL SKILLS

- **Fire Suppression Technologies:** wet-chemical formulations, dry-chemical formulations, extinguishing systems
- **Analytical Instruments:** TGA, DSC, FTIR
- **Compliance Frameworks:** PFAS, REACH, ROHS
- **Chemical Safety Protocols:** training sessions, risk assessments, quality checks
- **Process Optimization:** standard work, sourcing qualification, testing methodologies
- **Engineering Software:** CAD Modeling, Simulation Tools, Statistical Software
- **Collaboration Platforms:** Microsoft Teams, Slack, Zoom
- **Project Management Tools:** Trello, Asana, MS Project
- **Research Methodologies:** literature reviews, experimental designs, data analysis
- **Industry Standards:** ASTM, ISO, NFPA

SKILLS

- Product Development
- Analytical Instrumentation
- Innovation Engineering
- Quality Assurance
- Chemical Compliance
- Cross-Functional Collaboration
- Risk Management
- Client Engagement
- Fire Suppression Technology
- Regulatory Knowledge
- Aesthetic Application
- Technical Documentation
- Project Management
- Team Leadership
- Environmental Sustainability

PROFESSIONAL AFFILIATIONS

- American Institute of Chemical Engineers (AIChE)
- Society of Fire Protection Engineers (SFPE)

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST