



Sample List of A/E/C Careers

The Architecture, Engineering, and Construction (AEC) industry offers a diverse range of career choices that cater to various interests and skills. Sample list of AEC career choices:

1. Architectural Careers:

- Architect
- Architectural Designer
- Interior Designer
- Urban Planner
- Landscape Architect
- Historic Preservation Specialist

2. Engineering Careers:

- Civil Engineer
- Structural Engineer
- Geotechnical Engineer
- Transportation Engineer
- Environmental Engineer
- Mechanical Engineer (HVAC systems)
- Electrical Engineer
- Fire Protection Engineer

3. Construction Management and Trades:

- Construction Manager
- Project Manager
- Construction Superintendent

- Quantity Surveyor
- Estimator
- Construction Safety Officer
- Carpenter
- Electrician
- Plumber
- Mason
- Welder
- Site Preparation Contractors
- All Other Specialty Trade Contractors

4. Surveying and Geospatial Careers:

- Land Surveyor
- Geomatics Engineer
- GIS Specialist (Geographic Information Systems)
- Remote Sensing Technician

5. Building Services and Facilities Management:

- Facilities Manager
- Building Services Engineer
- Energy Consultant
- Sustainability Specialist
- Building Information Modeling (BIM) Specialist

6. Construction Technology and Innovation:

- BIM Manager
- Virtual Design and Construction (VDC) Specialist
- Construction Technologist
- Augmented Reality (AR) Developer for AEC

- Construction Robotics Engineer

7. Real Estate and Development:

- Real Estate Developer
- Property Manager
- Real Estate Appraiser
- Real Estate Broker

8. Materials and Quality Control:

- Materials Engineer
- Quality Control Manager

9. Health and Safety:

- Health and Safety Manager
- Occupational Health and Safety Specialist

10. Legal and Regulatory Careers:

- Construction Law Attorney
- Building Code Inspector

11. Consulting and Advisory Services:

- AEC Consultant
- Sustainability Consultant
- Building Performance Analyst

12. Pre-Construction and Design Services:

- Pre-construction Manager
- Design Manager

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This list is not exhaustive, but it provides a comprehensive overview of the diverse career opportunities within the Architecture, Engineering, and Construction industry. Each of these roles plays a crucial part in shaping the built environment and infrastructure that surrounds us.

Construction (AEC) industry:

1. Architectural Careers:

- Architect
- Architectural Designer
- Interior Designer
- Urban Planner
- Landscape Architect
- Historic Preservation Specialist
- Healthcare Architect
- Retail Designer
- Residential Designer
- Commercial Architect
- Industrial Architect
- Educational Facility Designer

2. Civil and Structural Engineering Careers:

- Civil Engineer
- Structural Engineer
- Geotechnical Engineer
- Bridge Engineer
- Tunnel Engineer

- Coastal Engineer
- Water Resources Engineer
- Earthquake Engineer
- Materials Engineer
- Transportation Engineer
- Traffic Engineer
- Highway Engineer
- Airport Engineer

3. Mechanical, Electrical, and Plumbing (MEP) Engineering Careers:

- Mechanical Engineer
- HVAC Engineer
- Plumbing Engineer
- Fire Protection Engineer
- Electrical Engineer
- Lighting Designer
- Power Systems Engineer
- Building Automation Engineer

4. Construction Management and Trades:

- Construction Manager
- Project Manager
- Construction Superintendent
- Estimator
- Quantity Surveyor
- Cost Engineer
- Scheduler
- Construction Safety Manager
- Construction Quality Control Manager

- Carpenter
- Electrician
- Plumber
- Mason
- Welder
- Ironworker
- Drywaller
- Concrete Finisher
- Glazier
- Roofing Specialist
- Flooring Installer
- Painter
- Equipment Operator
- Construction Laborer

5. Surveying and Geospatial Careers:

- Land Surveyor
- Geomatics Engineer
- Geographic Information Systems (GIS) Specialist
- Remote Sensing Analyst
- Cartographer
- Photogrammetrist

6. Building Services and Facilities Management:

- Facilities Manager
- Building Services Engineer
- Energy Manager
- Sustainability Coordinator
- BIM Manager

- Building Automation Specialist

7. Construction Technology and Innovation:

- BIM Coordinator
- VDC Manager (Virtual Design and Construction)
- Construction Technologist
- Augmented Reality (AR) Developer for AEC
- Construction Robotics Engineer
- 3D Printing Specialist for Construction

8. Real Estate and Development:

- Real Estate Developer
- Property Manager
- Real Estate Appraiser
- Real Estate Broker

9. Materials and Quality Control:

- Materials Engineer
- Quality Control Manager
- Non-Destructive Testing (NDT) Technician

10. Health and Safety:

- Health and Safety Manager
- Occupational Health and Safety Specialist

11. Academic and Research Careers:

- AEC Educator
- AEC Researcher

12. Legal and Regulatory Careers:

- Construction Law Attorney
- Building Code Inspector

13. Consulting and Advisory Services:

- AEC Consultant
- Sustainability Consultant
- Building Performance Analyst

14. Pre-Construction and Design Services:

- Pre-construction Manager
- Design Manager
- Design-Build Coordinator

15. Financial and Business Management:

- AEC Financial Analyst
- AEC Business Development Manager

16. AEC Marketing and Sales:

- AEC Marketing Specialist
- AEC Sales Representative

17. AEC Entrepreneurship:

- Founder of AEC Startups

Sample List of A/E/C Careers

Supplier diversity professionals play a crucial role in promoting diversity, equity, and inclusion within the Architecture, Engineering, and Construction (AEC) industry's supply chain. They work to identify and engage with a diverse range of suppliers, contractors, and subcontractors to ensure that minority-owned, women-owned, veteran-owned, LGBTQ-owned, and other underrepresented businesses have opportunities to participate in projects. These professionals may hold various titles and roles, such as:

1. **Supplier Diversity Manager/Director:** Responsible for developing and implementing supplier diversity programs, strategies, and policies within AEC firms. They work to establish relationships with diverse suppliers, track supplier diversity metrics, and ensure compliance with diversity goals.
2. **Diversity and Inclusion Officer:** Some larger AEC companies may have a dedicated executive focused on diversity and inclusion initiatives across the organization, including supplier diversity efforts.
3. **Procurement Manager/Director:** Collaborates with diverse suppliers to integrate them into the procurement process and ensures that diversity considerations are taken into account when selecting vendors and contractors.
4. **Community Outreach Coordinator:** Engages with local communities and minority-owned businesses to promote awareness of opportunities within the AEC industry and facilitates their participation in projects.
5. **Sustainability and Social Responsibility Manager:** In addition to environmental sustainability, these professionals may also oversee social responsibility initiatives, including supplier diversity efforts, as part of a company's commitment to ethical business practices.
6. **Supplier Diversity Specialist/Coordinator:** Supports the implementation and administration of supplier diversity programs, maintains databases of diverse suppliers, and assists with outreach and communication efforts.

7. Business Development Manager: Collaborates with diverse suppliers to identify potential partnerships and opportunities for joint ventures, helping them navigate the AEC industry.

8. Corporate Social Responsibility (CSR) Manager: Incorporates supplier diversity into a company's broader CSR strategy and oversees initiatives related to ethical sourcing and social impact.

9. Government Relations Specialist: In government contracts and public-sector projects, these professionals may work to ensure that diverse suppliers have equal access to procurement opportunities.

10. Diversity Consultant: Provides advisory services to AEC companies seeking to enhance their supplier diversity initiatives, offering expertise in best practices and strategies.

11. Contracts Manager: Ensures that supplier diversity requirements are included in contracts and monitors compliance throughout the project lifecycle.

12. External Affairs Manager: Collaborates with industry associations, advocacy groups, and community organizations to advance supplier diversity goals and initiatives.

13. Equity and Inclusion Coordinator: In companies with a broader focus on equity and inclusion, these professionals may oversee supplier diversity efforts as part of a larger inclusivity strategy.

14. Supplier Relationship Manager: Focuses on cultivating strong relationships with diverse suppliers, helping them build capacity and succeed within the AEC industry.

15. Marketing and Communications Manager: Responsible for promoting supplier diversity efforts both internally and externally, highlighting successes and encouraging participation.

These roles reflect the increasing recognition of the importance of supplier diversity within the AEC industry and the broader business landscape. Supplier diversity professionals help drive economic empowerment, foster innovation, and create a more inclusive and equitable supply chain.