

MARYLAND SOCIETY OF PROFESSIONAL ENGINEERS

2024 Maryland Engineering Conference

October 17, 2024

Melinda B. Peters, PE, CCM Partner, RK&K

INDUSTRY TRENDS & BUILDING THE FUTURE OF OUR INDUSTRY

My Civil Engineering Career





Civil Engineering Career



1 1/2 CO-OP with FHWA

Roadway Geotech **Construction Inspection**

HIRED

Entry Level Engineer with SHA

Intersection Studies **Intersection Designs** Park-N-Ride Modifications Interchange Modifications

JOB CHANGE











Civil Engineering Career



Manager in Roadway Team

General Engineering Consultant Planning Studies – US 29 Corridor 10 YEARS

Program Director

Intercounty Connector (ICC)

PROMOTION



PROMOTION



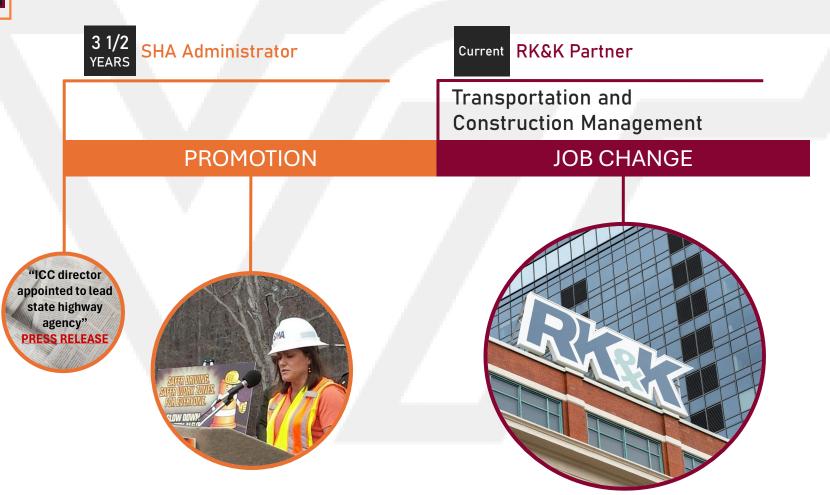








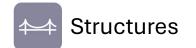
Civil Engineering Career

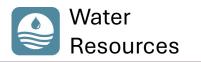




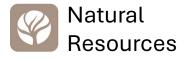


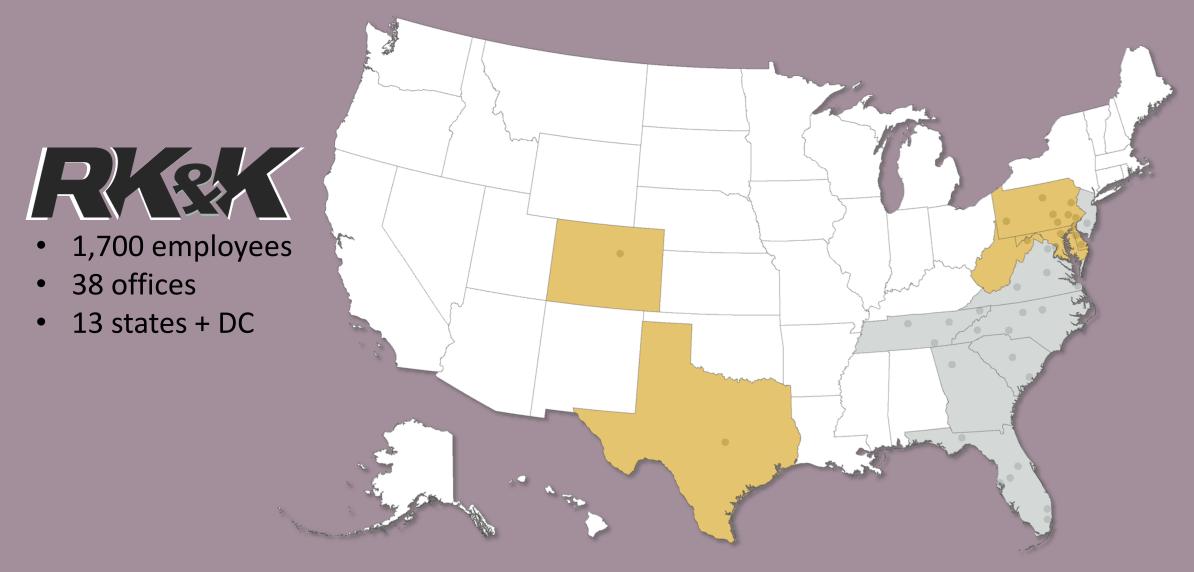


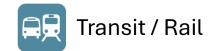








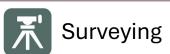












Opportunities / Challenges

Industry is constantly evolving

Future workforce

Role of AI and Technology in our business

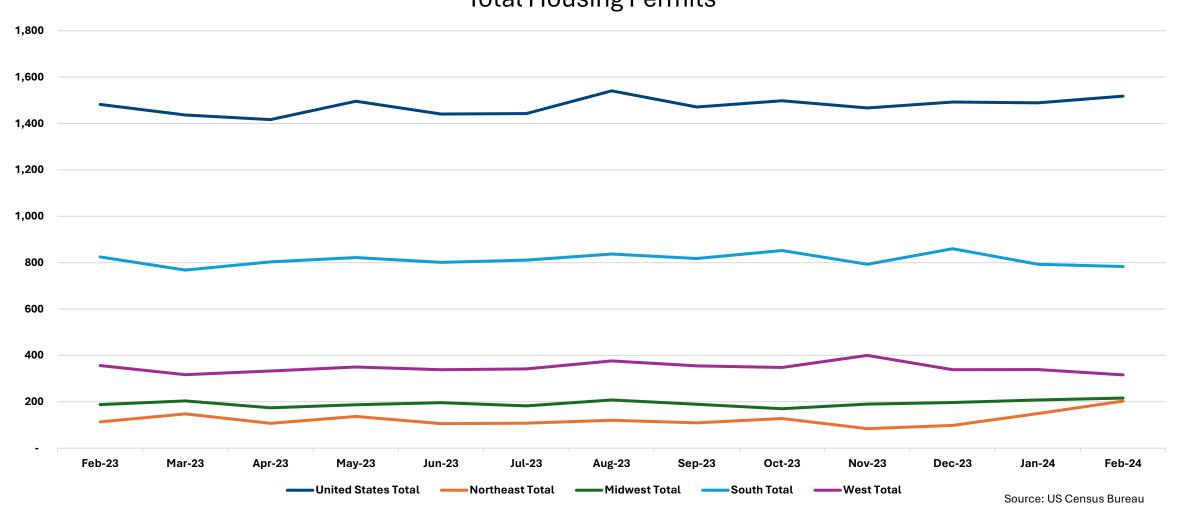
Industry Trends



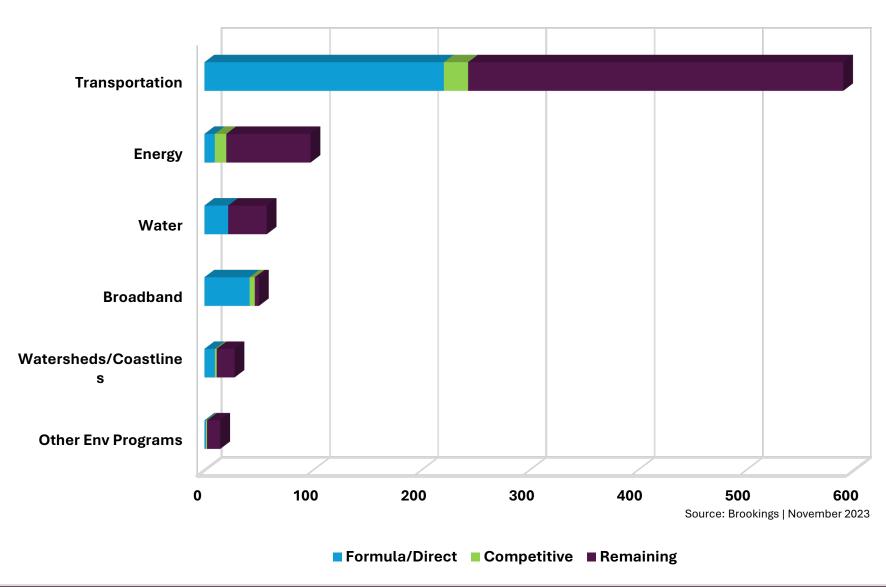


New Residential Construction (Feb 2023 - Feb 2024)

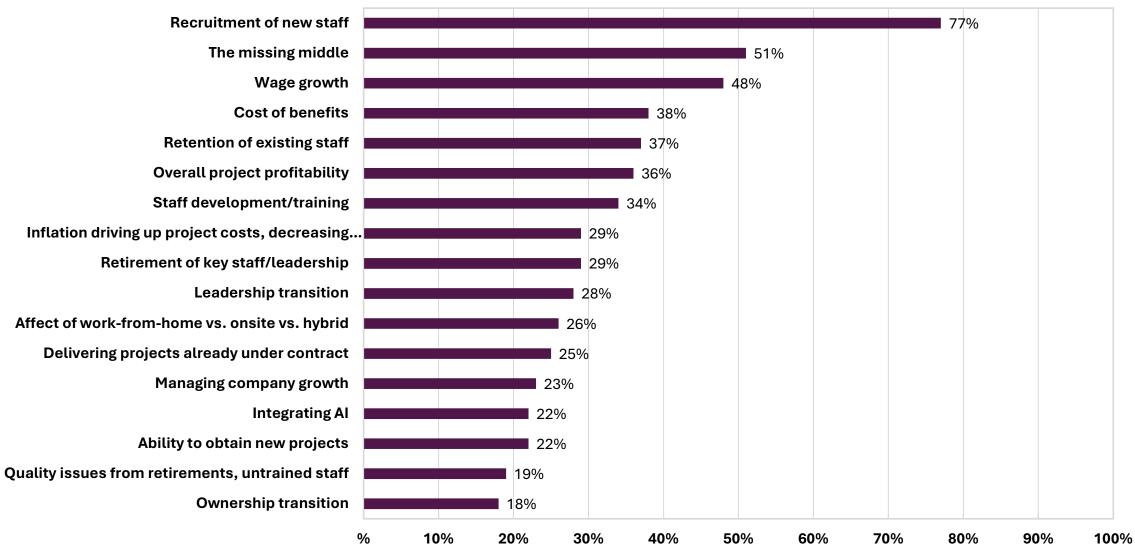
Total Housing Permits



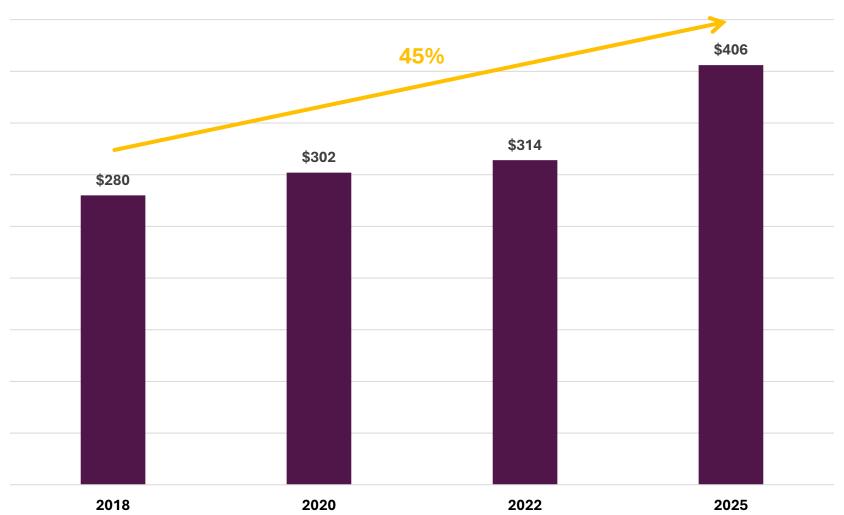
Progress of IIJA Awarded Funding (\$)



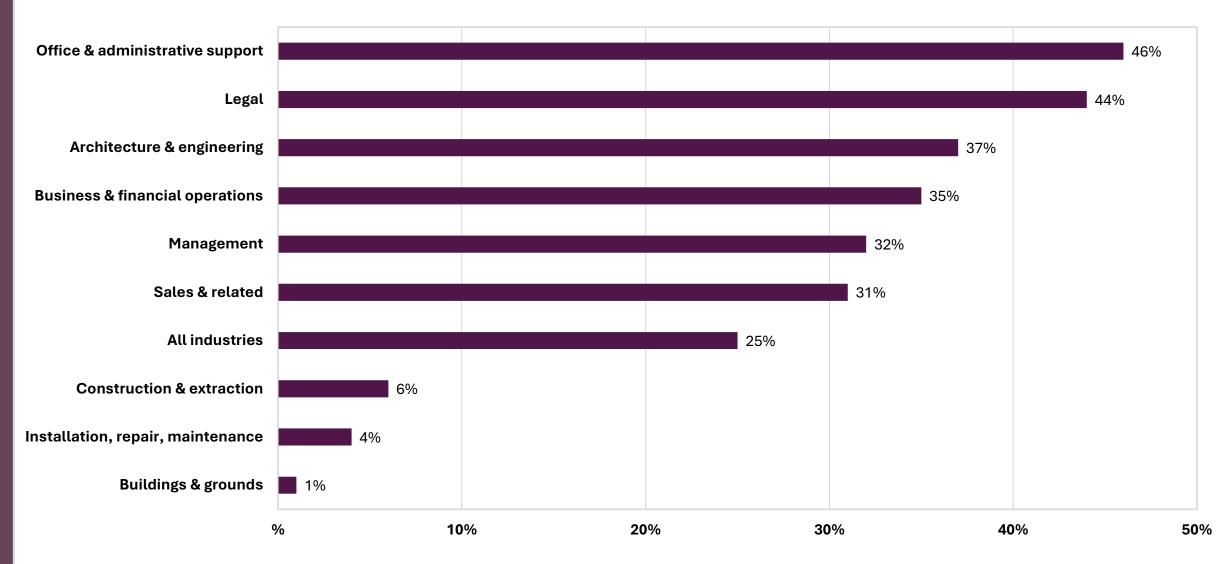
What Are the Biggest Challenges Facing Your Firm Today?



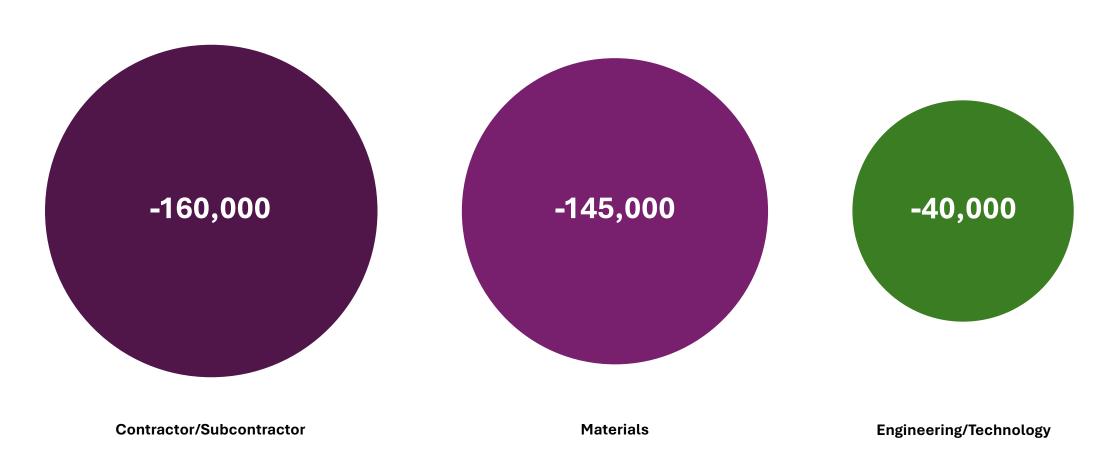
Design-Build PIP
Non-Residential: Billions of Dollars



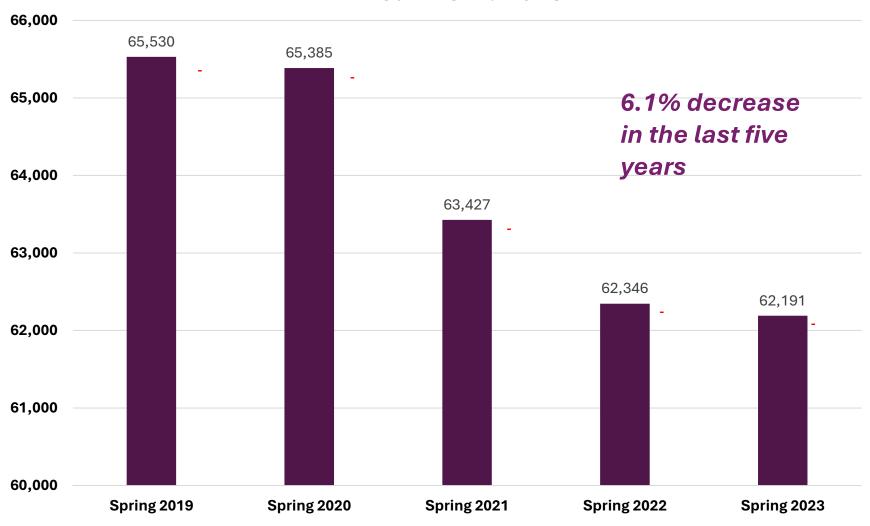
Al Impact on Select Industries



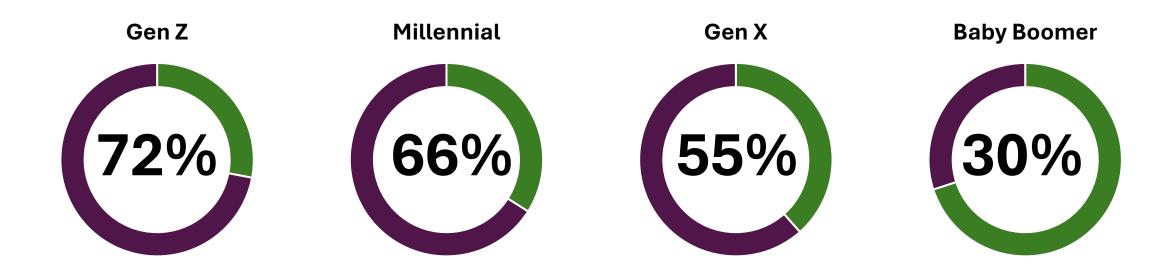
Workforce Challenges: Estimated Workforce Shortage - Through 2027-2028 (IIJA)



Estimated Engineering Enrollment 4-Year Institutions



The New Normal: Talent Considering Leaving Their Firm (Next 12 Months)



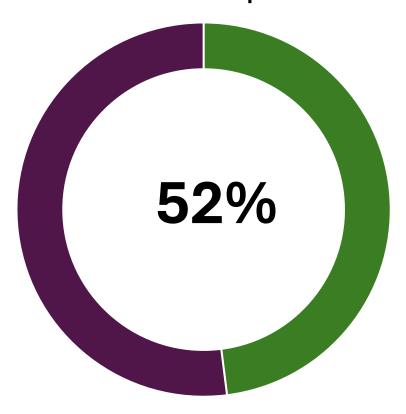
Median Tenure by Age

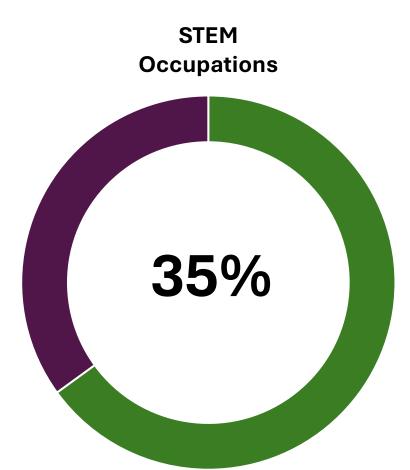
Age Range	Median Tenure
25-34	2.8 years
35-44	4.9 years
45-54	7.5 years
55-6	9.9 years
65+	10.3 years

Source: US BLS (9/2020); Gallup

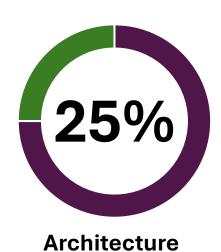
Women in the Workforce

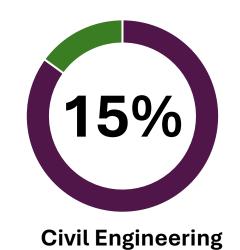
Management, Professional, & Related Occupations

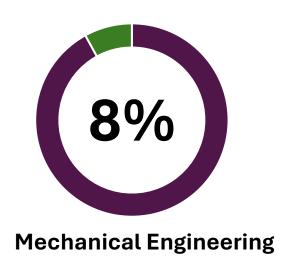


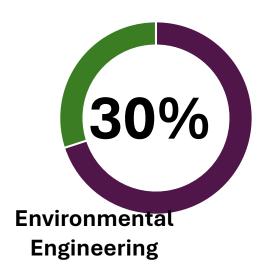


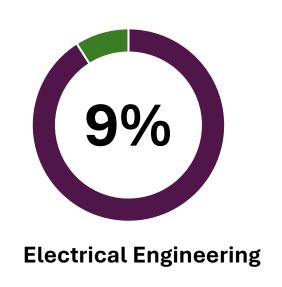
Women in the AEC Workforce





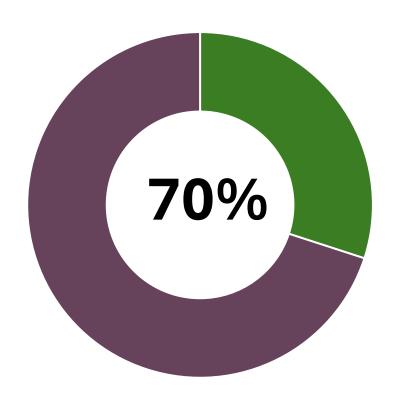








Women in Engineering



70% of women who earn a
Bachelors in Engineering are not
working in engineering 20 years
later

Our role in building the future of our industry











- Career Fairs
- Young members group

- Career Fairs
- Technical groups
- Annual Quality Event
- Industry outreach events





- Industry outreach events
- Partnerships with other organizations
- Focused on future funding

- Mentoring
- Engaged with a local high school
- Leadership Development



Initiatives







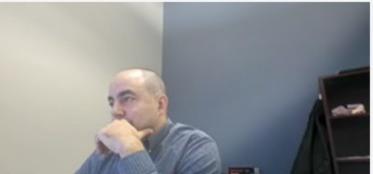




Intern Program























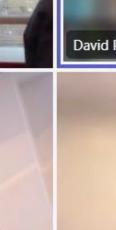




























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QUESTIONS?

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